VISHAY INTERTECHNOLOGY, INC.

RECTIFIERS

Bridge Rectifiers
Fast Recovery Rectifiers
Schottky Rectifiers
Standard Rectifiers
Ultrafast Recovery Rectifiers

DIODES

SELECTOR GUIDE

www.vishay.com

SEMICONDUCTORS

RECTIFIERS

- Schottky (single, dual)
- Standard, Fast and Ultra-Fast Recovery (single, dual)
- Bridge
- Superectifier®
- Sinterglass Avalanche Diodes

HIGH-POWER DIODES AND THYRISTORS

- High-Power Fast-Recovery Diodes
- Phase-Control Thyristors
- Fast Thyristors

SMALL-SIGNAL DIODES

- Schottky and Switching (single, dual)
- Tuner/Capacitance (single, dual)
- Bandswitching
- PIN

ZENER AND SUPPRESSOR DIODES

- Zener (single, dual)
- TVS (TRANSZORB®, Automotive, ESD, Arrays)

FETs

- Low-Voltage TrenchFET® Power MOSFETs
- High-Voltage TrenchFET® Power MOSFETs
- High-Voltage Planar MOSFETs
- JFETs

OPTOELECTRONICS

- IR Emitters and Detectors, and IR Receiver Modules
- Optocouplers and Solid-State Relays
- Optical Sensors
- LEDs and 7-Segment Displays
- Infrared Data Transceiver Modules
- Custom Products

ICs

- Power ICs
- Analog Switches

MODULES

- Power Modules (contain power diodes, thyristors, MOSFETs, IGBTs)

PASSIVE COMPONENTS

RESISTIVE PRODUCTS

- Film Resistors
  - Metal Film Resistors
  - Thin Film Resistors
  - Thick Film Resistors
  - Metal Oxide Film Resistors
  - Carbon Film Resistors
- Wirewound Resistors
- Power Metal Strip® Resistors
- Chip Fuses
- Variable Resistors
  - Cermet Variable Resistors
  - Wirewound Variable Resistors
  - Conductive Plastic Variable Resistors
- Networks/Arrays
- Non-Linear Resistors
  - NTC Thermistors
  - PTC Thermistors
  - Varistors

MAGNETICS

- Inductors
- Transformers

CAPACITORS

- Tantalum Capacitors
  - Molded Chip Tantalum Capacitors
  - Coated Chip Tantalum Capacitors
  - Solid Through-Hole Tantalum Capacitors
  - Wet Tantalum Capacitors
- Ceramic Capacitors
  - Multilayer Chip Capacitors
  - Disc Capacitors
- Film Capacitors
- Power Capacitors
- Heavy-Current Capacitors
- Aluminum Capacitors

Rectifiers

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www.vishay.com

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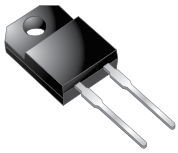
Industry's First Commercial TMBS® - Trench MOS Barrier Schottky Rectifier Series

TO-277A (SMPC)



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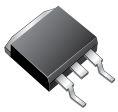

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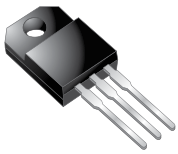

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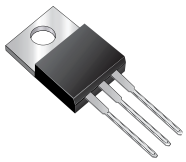

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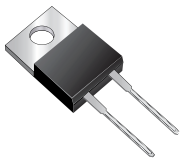
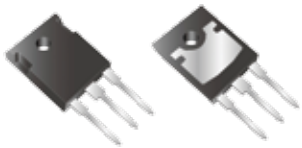


TO-220AC

TO-262AA



TO-3PW

Vishay's patented Trench MOS Brrier Schottky (TMBS®) rectifiers are available with seven voltage ratings from 45 V to 200 V and several different package options to serve a wide range of system requirements. TMBS offers several advantages over planar Schottky rectifiers. As operating voltages move to 45 V and above, planar Schottky rectifiers tend to lose their advantage of fast switching speeds and low forward voltage drop to a substantial degree. The patented TMBS structure addresses this Issue by diminishing minority carrier injections to the drift region, thus minimizing stored charges and improving switching speeds.

For detailed Information, please refer to the TMBS® section of this selector guide or visit the Vishay web site for the latest information on available devices.

FEATURES

- Patented Trench structure
- Voltage ratings: 45 V, 60 V, 80 V, 100 V, 120 V, 150 V, 200 V
- Improved efficiency in AC/DC SMPS and DC/DC converters
- High power density and low forward voltage
- Multiple package options

APPLICATIONS

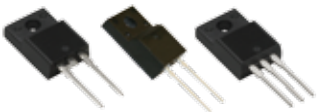
- Adaptors for LCD monitors and TVs, mini PCs
- PC and server power supplies
- AC/DC SMPS
- DC/DC convertors
- Telecom and server OR-ing diodes

For technical support, contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

FRED Pt® Series 200 V to 600 V, T_j max 175 ºC: Flexible Ultrafast Platform for Power Supplies and Inverters

DPAK (TO-252)
(rated 4 A to 15 A)

TO-220AC / TO-220AB / Isolated TO-220AC
(rated 8 A to 30 A)



TO-220FPAC / AB
(rated 8 A to 30 A)

D²PAK (TO-263)
(rated 8 A to 30 A)

I²PAK (TO-262)
(rated 8 A to 30 A)

TO-247AC
(rated 30 A to 60 A)

TO-218
(rated 70 A)

POWERTAB™
(rated 80 A to 150 A)

The Vishay Semiconductors FRED Pt® series of ultrafast diodes offers designers a highly flexible solution that's equally at home In consumer and automotive applications.

With ratings from 200 V to 600 V and from 4 A to 150 A -- unique in the industry -- this series allows designers to increase the efficiency of power supplies with devices designed to minimize conduction and/or switching losses.

Their extreme low leakage current at high temperature, careful design of chip terminations, and construction with high-quality materials make FRED Pt® the ideal choice for automotive applications as well.

FEATURES

- V_{RRM} 200 V to 600 V
- Same current (A) rating is available for devices optimized for lowest conduction losses or lowest switching losses
  - Lowest Q_{rr} at 125 °C
  - Lowest V_F at I_F
- Improved efficiency in SMPS
- Soft recovery for reduced EMI at high di/dt
- T_j (max) 175 °C
- AEC-Q101 qualified
- RoHS compliant
- Halogen Free packages available

APPLICATIONS

- Power factor correction (PFC) for switchmode power supplies in
  - Desktop PCs
  - Lighting/ballast
  - Server and telecom
  - TVs and monitors
  - Game controllers
- ECU for fuel injection on diesel/gasoline-fueled systems
- Traction control systems
- Solar inverters

New eSMP® Surface-Mount Package Series with Unique Wide Bottom Plate Designs and Space-Saving Footprints

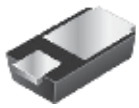
SMP

(3.8 x 2 x 1) mm

SMPC

(6.7 x 4.8 x 1.1) mm

MicroSMP



(2.5 x 1.3 x 0.65) mm

	$R_{\Theta JL}$
MicroSMP	30 °C/W
SMP	15 °C/W
SMPC	3 °C/W

The Vishay Semiconductors eSMP® surface-mount package series enables higher current density and power efficiency with a unique design that promotes better thermal performance and reliability.

FEATURES

- Space saving miniature packages:
  - SMP (3.8 x 2 x 1) mm
  - SMPC (6.7 x 4.8 x 1.1) mm
  - MicroSMP (2.5 x 1.3 x 0.65) mm
- Special wide bottom plate design enables better heat dissipation than other packages of similar size
- Low device height
- Low thermal resistance
- AEC-Q101 qualified
- Available for Schottky, ultrafast and standard rectifiers

APPLICATIONS

- Telecom
- Automotive
- Computer
- Industrial
- Mobile consumer electronics

For technical support, contact: DiodesAmericas@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com

New PowerBridge® Series
Enhanced Power Bridge Rectifiers
10 A to 25 A (BU series) and 30 A to 45 A (PB series)

Vishay's new PowerBridge® rectifier series gives designers a space saving, high-current solution for bridge rectifiers In switchmode power supplies (SMPS), home appliances, audio/video equipment, and more. With highly efficient performance comparable to larger size bridge products, the low thermal resistance of PowerBridge devices reduces size requirements for heat sinks, since less heat needs to be dissipated. Offering a lead pitch and pin layout compatible with the conventional GBU and GSIB-55, PowerBridge offers the designers the ability to upgrade system power without changing PCB layouts or heat sinking. A maximum solder temperature of 275 °C / 10 s enables high reliability in manual soldering.

APPLICATIONS INCLUDE

- Primary rectification circuit In SMPS and adaptors for desktop PCs, servers, notebook PCs, plasma display panels (PDPs) TVs, LCD TVs, and monitors
- Primary rectification circuit for inverter type home appliance, such as refrigerators, washing machines, air conditioners, and induction heater systems
- Primary rectification circuit in telecom SMPS

Part Number	Description	Package	V_F at I_F Per Chip, T_j
BU2506 to BU2510	600 V to 1000 V 25 A single-phase bridge rectifier	BU	0.87 V typical at 12.5 A, 125 °C
BU2006 to BU2010	600 V to 1000 V 20 A single-phase bridge rectifier	BU	0.85 V typical at 10 A, 125 °C
BU1506 to BU1510	600 V to 1000 V 15 A single-phase bridge rectifier	BU	0.87 V typical at 7.5 A, 125 °C
BU1206 to BU1210	600 V to 1000 V 12 A single-phase bridge rectifier	BU	0.88 V typical at 6 A, 125 °C
BU1006 to BU1010	600 V to 1000 V 10 A single-phase bridge rectifier	BU	0.88 V typical at 5 A, 125 °C
PB3006 to PB3010	600 V to 1000 V 30 A single-phase bridge rectifier	PB	0.97 V typical at 15 A, +125 ºC
PB3506 to PB3510	600 V to 1000 V 35 A single-phase bridge rectifier	PB	0.90 V typical at 17.5 A, +125 ºC
PB4006 to PB4010	600 V to 1000 V 40 A single-phase bridge rectifier	PB	0.94 V typical at 20 A, +125 ºC
PB5006 to PB5010	600 V to 1000 V 45 A single-phase bridge rectifier	PB	0.90 V typical at 22.5 A, +125 ºC

Schottky Rectifiers are the ideal product for high-speed and low power loss applications. Their metal-silicon junctions and majority carrier condition result in extremely fast recovery times (less than 10 ns) and very low forward voltage drops. Vishay's unique sputtered metallization process and ion implanted guardring technology result in a highly reliable Schottky product. We offer our customers the opportunity to select the best device for their applications by providing the flexibility of different barrier heights.

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
0.6	SB020 to SB060	G	Plastic Axial	MPG06	20 to 60	0.55 / 0.70	0.6
1.0	1N5817 to 1N5819	G	Plastic Axial	DO-204AL (DO-41)	20 to 40	0.45 to 0.60	1.0
1.0	BYM13-20 to BYM13-60	G	Plastic SMD	DO-213AB (MELF)	20 to 60	0.50 to 0.70	1.0
1.0	**MSS1P2L and MSS1P3L**	**G**	**Plastic SMD**	**MicroSMP**	**20 to 30**	**0.50**	**1.0**
1.0	**MSS1P2U and MSS1P3U**	**G**	**Plastic SMD**	**MicroSMP**	**20 to 30**	**0.40**	**1.0**
1.0	**MSS1P3 and MSS1P4**	**G**	**Plastic SMD**	**MicroSMP**	**30 to 40**	**0.55**	**1.0**
1.0	**MSS1P5 and MSS1P6**	**G**	**Plastic SMD**	**MicroSMP**	**50 to 60**	**0.68**	**1.0**
1.0	SB120 to SB160	G	Plastic Axial	DO-204AL (DO-41)	20 to 60	0.48 to 0.65	1.0
1.0	**SB120A to SB160A**	**G**	**Plastic Axial**	**DO-204AL (DO-41)**	**20 to 60**	**0.50 to 0.70**	**1.0**
1.0	SB1H90 and SB1H100	G	Plastic Axial	DO-204AL (DO-41)	90 to 100	0.77	1.0
1.0	SGL41-20 to SGL41-60	G	Plastic SMD	DO-213AB (MELF)	20 to 60	0.50 to 0.70	1.0
1.0	SS12 to SS16	G	Plastic SMD	DO-214AC (SMA)	20 to 60	0.50 to 0.75	1.0
1.0	**B120 to B160**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**20 to 60**	**0.52 to 0.75**	**1.0**
1.0	SS1H9 and SS1H10	G	Plastic SMD	DO-214AC (SMA)	90 to 100	0.77	1.0
1.0	**SS1P3L and SS1P4L**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**30 to 40**	**0.45 to 0.48**	**1.0**
1.0	**SS1P3 and SS1P4**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**30 to 40**	**0.50 to 0.53**	**1.0**
1.0	**SS1P5L and SS1P6L**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**50 to 60**	**0.59**	**1.0**
1.5	BYS10-25 to BYS10-45	G	Plastic SMD	DO-214AC (SMA)	25 to 45	0.5	1.0
1.5	BYS11-90	G	Plastic SMD	DO-214AC (SMA)	90	0.75	1.0
1.5	BYS12-90	G	Plastic SMD	DO-214AC (SMA)	90	0.36 / 0.75	0.1 / 1.0
1.5	SL12 and SL13	G	Plastic SMD	DO-214AC (SMA)	20 to 30	0.36 / 0.445	0.1 / 1.0
1.5	SS29 and SS210	G	Plastic SMD	DO-214AA(SMB)	90 to 100	0.75/0.95	1.0/3.0
2.0	**SB220 to SB260**	**G**	**Plastic Axial**	**DO-204AC (DO-15)**	**20 to 60**	**0.5 / 0.68**	**2.0**
2.0	**SB220S to SB260S**	**G**	**Plastic Axial**	**DO-204AL (DO-41)**	**20 to 60**	**0.55 / 070**	**2.0**
2.0	SB2H90 and SB2H100	G	Plastic Axial	DO-204AC (DO-15)	90 to 100	0.79	2.0
2.0	**MSS2P2 and MSS2P3**	**G**	**Plastic SMD**	**MicroSMP**	**20 to 30**	**0.6**	**2.0**
2.0	**B230LA and B240A**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**30 to 40**	**0.50 to 0.55**	**2.0**
2.0	SL22 and SL23	G	Plastic SMD	DO-214AA (SMB)	20 to 30	0.395 / 0.44	1.0 / 2.0
2.0	SS22 to SS26	G	Plastic SMD	DO-214AA (SMB)	20 to 60	0.50 to 0.70	2.0
2.0	**SS22S, SS23S and SS24S**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**20 to 40**	**0.55**	**2.0**

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product
5. Source: G = formerly General Semiconductor

Schottky Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
2.0	**SS25S and SS26S**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**50 to 60**	**0.75**	**2.0**
2.0	SS2H9 and SS2H10	G	Plastic SMD	DO-214AA (SMB)	90 to 100	0.79	2.0
2.0	**SS2P2, SS2P3 and SS2P4**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**20 to 40**	**0.55**	**2.0**
2.0	**SS2P2L and SS2P3L**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**20 to 30**	**0.5**	**2.0**
2.0	**SS2P5 and SS2P6**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**50 to 60**	**0.7**	**2.0**
2.0	**SS2PH9 and SS2PH10**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**90 to 100**	**0.8**	**2.0**
2.0	**SSA23L and SSA24**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**30 to 40**	**0.45 to 0.49**	**2.0**
3.0	**B330LA and B340A**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**30 to 40**	**0.50 to 0.55**	**3.0**
3.0	**B340LB**	**G**	**Plastic SMD**	**DO-214AA (SMB)**	**40**	**0.45**	**3.0**
3.0	**B350A and B360A**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**50 to 60**	**0.72**	**3.0**
3.0	**B350B and B360B**	**G**	**Plastic SMD**	**DO-214AA (SMB)**	**50 to 60**	**0.66**	**3.0**
3.0	1N5820 to 1N5822	G	Plastic Axial	DO-201AD	20 to 40	0.475 to 0.525	3.0
3.0	SB320 to SB360	G	Plastic Axial	DO-201AD	20 to 60	0.49 to 0.68	3.0
3.0	**SB320A to SB360A**	**G**	**Plastic Axial**	**DO-201AD**	**20 to 60**	**0.50 to 0.70**	**3.0**
3.0	**SB320S to SB360S**	**G**	**Plastic Axial**	**DO-204AC (DO-15)**	**20 to 60**	**0.50 to 0.70**	**3.0**
3.0	SB3H90 and SB3H100	G	Plastic Axial	DO-201AD	90 to 100	0.8	3.0
3.0	SS32 to SS36	G	Plastic SMD	DO-214AB (SMC)	20 to 60	0.5 to 0.75	3.0
3.0	**SS3H9 and SS3H10**	**G**	**Plastic SMD**	**DO-214AB (SMC)**	**90 to 100**	**0.8**	**3.0**
3.0	**SS3P3**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**30**	**0.58**	**3.0**
3.0	**SS3P4**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**40**	**0.6**	**3.0**
3.0	**SS3P5 and SS3P6**	**G**	**Plastic SMD**	**DO-220AA (SMP)**	**50 to 60**	**0.78**	**3.0**
3.0	**SSA33L and SSA34**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**30 to 40**	**0.45 to 0.49**	**3.0**
3.0	**SS3P3L and SS3P4L**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**30 to 40**	**0.47**	**3.0**
3.0	**SS3P5L and SS3P6L**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**50 to 60**	**0.60**	**3.0**
4.0	SL42 and SL43	G	Plastic SMD	DO-214AB (SMC)	20 to 30	0.42 / 0.47	4.0 / 8.0
4.0	SL44	G	Plastic SMD	DO-214AB (SMC)	40	0.44 / 0.50	4.0 / 8.0
4.0	SSB43L and SSB44	G	Plastic SMD	DO-214AA (SMB)	30 to 40	0.45 to 0.49	4.0
5.0	SB520 to SB560	G	Plastic Axial	DO-201AD	20 to 60	0.48 to 0.65	5.0
5.0	**SB520A to SB560A**	**G**	**Plastic Axial**	**DO-201AD**	**20 to 60**	**0.50 to 0.70**	**5.0**
5.0	SB5H90 and SB5H100	G	Plastic Axial	DO-201AD	90 to 100	0.8	5.0
5.0	SSC53L and SSC54	G	Plastic SMD	DO-214AB (SMC)	30 to 40	0.45 to 0.49	5.0
5.0	**SS5P3 and SS5P4**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**50 to 60**	**0.52**	**5.0**
5.0	**SS5P5 and SS5P6**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**50 to 60**	**0.69**	**5.0**
5.0	**SS5P9 and SS5P10**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**90 to 100**	**0.88**	**5.0**
6.0	**SS6P4C**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**40**	**0.65**	**3.0**

Note:
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4. 35 V to 45 V product/50 V to 60 V product
5. Source: G = formerly General Semiconductor

Schottky Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
7.5	MBR735 to MBR760	G	Plastic Power Pack	TO-220AC	35 to 60	0.84 / 0.75[4]	15 / 7.5
7.5	MBRB735 to MBRB760	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.84 / 0.75[4]	15 / 7.5
7.5	MBRF735 to MBRF760	G	Isolated Power Pack	ITO-220AC	35 to 60	0.84 / 0.75[4]	15 / 7.5
7.5	MBR7H35 to MBR7H60	G	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.73[4]	7.5
7.5	MBRB7H35 to MBRB7H60	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.63 / 0.73[4]	7.5
7.5	MBRF7H35 to MBRF7H60	G	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.73[4]	7.5
8.0	**SS8P2L and SS8P3L**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**20 to 30**	**0.57**	**8.0**
8.0	**SS8PH9 and SS8PH10**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**90 to 100**	**0.9**	**8.0**
8.0	**SS8P2CL and SS8P3CL**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**20 to 30**	**0.54**	**4.0**
8.0	**SS8P3C and SS8P4C**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**30 to 40**	**0.58**	**4.0**
8.0	**SS8P5C and SS8P6C**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**50 to 60**	**0.70**	**4.0**
10	MBR1035 to MBR1060	G	Plastic Power Pack	TO-220AC	35 to 60	0.84 / 0.80[4]	20 / 10.0
10	MBRB1035 to MBRB1060	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.84 / 0.80[4]	20 / 10.0
10	MBRF1035 to MBRF1060	G	Isolated Power Pack	ITO-220AC	35 to 60	0.84 / 0.80[4]	20 / 10.0
10	MBR10H35 to MBR10H60	G	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.71[4]	10
10	MBRB10H35 to MBRB10H60	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.63 / 0.71[4]	10
10	MBRF10H35 to MBRF10H60	G	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.71[4]	10
10	MBR10H90 and MBR10H100	G	Plastic Power Pack	TO-220AC	90 to 100	0.77	10
10	MBRB10H90 and MBR10H100	G	Power Pack SMD	TO-263AB (D^2PAK)	90 to 100	0.77	10
10	MBRF10H90 and MBR10H100	G	Isolated Power Pack	ITO-220AC	90 to 100	0.77	10
10	MBR10H90CT and MBR10H100CT	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.76	5.0
10	MBRB10H90CT and MBRB10H100CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	90 to 100	0.76	5.0
10	MBRF10H90CT and MBRF10H100CT	G	Isolated Power Pack[2]	ITO-220AB	90 to 100	0.76	5.0
10	MBR10H150CT	G	Plastic Power Pack[2]	TO-220AB	150	0.88	5.0
10	SB10H150CT-1	G	Plastic Power Pack[2]	TO-262AA	150	0.88	5.0
10	MBRF10H150CT	G	Isolated Power Pack[2]	ITO-220AB	150	0.88	5.0
10	SBL1030 and SBL1040	G	Plastic Power Pack	TO-220AC	30 to 40	0.6	10
10	SBLB1030 and SBLB1040	G	Power Pack SMD	TO-263AB (D^2PAK)	30 to 40	0.6	10
10	SBLF1030 and SBLF1040	G	Isolated Power Pack	ITO-220AC	30 to 40	0.6	10
10	SBL1030CT and SBL1040CT	G	Plastic Power Pack[2]	TO-220AB	30 to 40	0.55	5.0
10	SBLB1030CT and SBLB1040CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	30 to 40	0.55	5.0
10	SBLF1030CT and SBLF1040CT	G	Isolated Power Pack[2]	ITO-220AB	30 to 40	0.55	5.0
10	SBL10L25	G	Plastic Power Pack	TO-220AC	25	0.46	10
10	SBLB10L25	G	Power Pack SMD	TO-263AB (D^2PAK)	25	0.46	10
10	SBLF10L25	G	Isolated Power Pack	ITO-220AC	25	0.46	10

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4. 35 V to 45 V product/50 V to 60 V product
5. Source: G = formerly General Semiconductor

Schottky Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
10	SBL10L30	G	Plastic Power Pack	TO-220AC	30	0.52	10
10	SBLB10L30	G	Power Pack SMD	TO-263AB (D^2PAK)	30	0.52	10
10	SBLF10L30	G	Isolated Power Pack	ITO-220AC	30	0.52	10
10	**SS10P2CL and SS10P3CL**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**20 to 30**	**0.52**	**5.0**
10	**SS10P3C and SS10P4C**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**30 to 40**	**0.53**	**5**
10	**SS10P3 and SS10P4**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**30 to 40**	**0.56**	**10**
10	**SS10P5 and SS10P6**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**50 to 60**	**0.67**	**10**
10	**SS10PH45**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**45**	**0.72**	**10**
10	**SS10PH9 and SS10PH10**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**90 to 100**	**0.88**	**10**
12	**SS12P2L and SS12P3L**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**20 to 30**	**0.56**	**12**
12	**SS12P4C**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**40**	**0.52**	**6**
12	**SS12P4S**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**40**	**0.60**	**12**
15	**SB15H45**	**G**	**Plastic Axial**	**P600**	**45**	**0.64**	**15.0**
15	MBR1535CT to MBR1560CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.84 / 0.75(4)	15 / 7.5
15	MBRB1535CT to MBRB1560CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.84 / 0.75(4)	15 / 7.5
15	MBRF1535CT to MBRF1560CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.84 / 0.75(4)	15 / 7.5
15	MBR15H35CT to MBR15H60CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.63 / 0.73(4)	7.5
15	MBRB15H35CT to MBRB15H60CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.63 / 0.73(4)	7.5
15	MBRF15H35CT to MBRF15H60CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.63 / 0.73(4)	7.5
15	**SS15P3S**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**30**	**0.57**	**15**
16	MBR1635 to MBR1660	G	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.75[4]	16.0
16	MBRB1635 to MBRB1660	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.63 / 0.75[4]	16.0
16	MBRF1635 to MBRF1660	G	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.75[4]	16.0
16	MBR16H35 to MBR16H60	G	Plastic Power Pack	TO-220AC	35 to 60	0.66 / 0.73[4]	16.0
16	MBRB16H35 to MBRB16H60	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 60	0.66 / 0.73[4]	16.0
16	MBRF16H35 to MBRF16H60	G	Isolated Power Pack	ITO-220AC	35 to 60	0.66 / 0.73[4]	16.0
16	SBL1630CT and SBL1640CT	G	Plastic Power Pack[2]	TO-220AB	30 to 40	0.55	8.0
16	SBLB1630CT and SBLB1640CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	30 to 40	0.55	8.0
16	SBLF1630CT and SBLF1640CT	G	Isolated Power Pack[2]	ITO-220AB	30 to 40	0.55	8.0
20	MBR2035CT to MBR2060CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.84 / 0.80[4]	20 / 10.0
20	MBRB2035CT to MBRB2060CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.84 / 0.80[4]	20 / 10.0
20	MBRF2035CT to MBRF2060CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.84 / 0.80[4]	20 / 10.0
20	MBR20H35CT to MBR20H60CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.63 / 0.71[4]	10.0
20	MBRB20H35CT to MBRB20H60CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.63 / 0.71[4]	10.0
20	MBRF20H35CT to MBRF20H60CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.63 / 0.71[4]	10.0

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Schottky Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
20	MBR20H90CT and MBR20H100CT	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.77	10.0
20	MBRB20H90CT and MBRB20H100CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	90 to 100	0.77	10.0
20	MBRF20H90CT and MBRF20H100CT	G	Isolated Power Pack[2]	ITO-220AB	90 to 100	0.77	10.0
20	MBR20H90CTG and MBR20H100CTG	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.85	10.0
20	MBR20H150CT	G	Plastic Power Pack[2]	TO-220AB	150	0.9	10.0
20	SB20H150CT-1	G	Plastic Power Pack[2]	TO-262AA	150	0.9	10.0
20	MBRF20H150CT	G	Isolated Power Pack[2]	ITO-220AB	150	0.9	10.0
20	MBR20H200CT	G	Plastic Power Pack[2]	TO-220AB	200	0.88	10.0
20	SB20H200CT-1	G	Power Pack SMD[2]	TO-262AA	200	0.88	10.0
20	MBRF20H200CT	G	Isolated Power Pack[2]	ITO-220AB	200	0.88	10.0
20	M2035S and M2045S	G	Plastic Power Pack	TO-220AB	35 to 45	0.7	20.0
20	MI2050C to MI2060C	G	Plastic Power Pack[2]	TO-262AA	50 to 60	0.74	10.0
20	SBL2030CT and SBL2040CT	G	Plastic Power Pack[2]	TO-220AB	30 to 40	0.6	10.0
20	SBLB2030CT and SBL2040CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	30 to 40	0.6	10.0
20	SBLF2030CT and SBL2040CT	G	Isolated Power Pack[2]	ITO-220AB	30 to 40	0.6	10.0
20	SBL2030PT and SBL2040PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	30 to 40	0.55	10.0
25	SBL25L20CT to SBL25L30CT	G	Plastic Power Pack[2]	TO-220AB	20 to 30	0.49	12.5
25	SBLB25L20CT to SBLB25L30CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	20 to 30	0.49	12.5
25	SBLF25L20CT to SBLF25L30CT	G	Isolated Power Pack[2]	ITO-220AB	20 to 30	0.49	12.5
30	MBR2535CT to MBR2560CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.82 / 0.75[4]	30 / 15
30	MBRB2535CT to MBRB2560CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.82 / 0.75[4]	30 / 15
30	MBRF2535CT to MBRF2560CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.82 / 0.75[4]	30 / 15
30	MBR25H35CT to MBR25H60CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.64 / 0.70[4]	15
30	MBRB25H35CT to MBRB25H60CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.64 / 0.70[4]	15
30	MBRF25H35CT to MBRF25H60CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.64 / 0.70[4]	15
30	MBR3035CT and MBR3045CT	G	Plastic Power Pack[2]	TO-220AB	35 to 45	0.76	30
30	MBRB3035CT and MBRB3045CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 45	0.76	30
30	MBRF3035CT and MBRF3045CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 45	0.76	30
30	MBR30H35CT to MBR30H60CT	G	Plastic Power Pack[2]	TO-220AB	35 to 60	0.62 / 0.68[4]	15
30	MBRB30H35CT to MBRB30H60CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	35 to 60	0.62 / 0.68[4]	15
30	MBRF30H35CT to MBRF30H60CT	G	Isolated Power Pack[2]	ITO-220AB	35 to 60	0.62 / 0.68[4]	15
30	MBR3035PT to MBR3060PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	35 to 60	0.76 / 0.75[4]	30 / 20
30	MBR30H35PT to MBR30H60PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	35 to 60	0.66 / 0.74[4]	20
30	MBR30H90CT and MBR30H100CT	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.82	15
30	MBRF30H90CT and MBRF30H100CT	G	Isolated Power Pack[2]	ITO-220AB	90 to 100	0.82	15

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Schottky Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family[3]	Type		(V)	(A)
30	MBRB30H90CT and MBRB30H100CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	90 to 100	0.82	15
30	MBR30H90PT and MBR30H100PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	90 to 100	0.82	15
30	MBR30H150CT	G	Plastic Power Pack[2]	TO-220AB	150	0.90	15
30	SB30H150CT-1	G	Plastic Power Pack[2]	TO-262AA	150	0.90	15
30	MBRF30H150CT	G	Isolated Power Pack[2]	ITO-220AB	150	0.90	15
30	M3035S and M3045S	G	Plastic Power Pack	TO-220AB	35 to 45	0.70	30
30	MB3035S and MB3045S	G	Power Pack SMD	TO-263AB (D^2PAK)	35 to 45	0.70	30
30	MI3035S and MI3045S	G	Plastic Power Pack	TO-262AA	35 to 45	0.70	30
30	**M3060C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**60**	**0.72**	**15**
30	**MI3060C**	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**60**	**0.72**	**15**
30	**MF3060C**	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**60**	**0.72**	**15**
30	**M30L40C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**40**	**0.55**	**15**
30	**M30L45C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**45**	**60**	**15**
30	SBL3030PT and SBL3040PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	30 to 40	0.55	15
30	SD241P	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	45	0.47 / 0.60	10 / 20 (125 °C)
40	MBR4035PT to MBR4060PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	35 to 60	0.70 / 0.72[4]	20
40	**MBR40H35CT to MBR40H60CT**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**35 to 60**	**0.64 / 0.68[4]**	**20**
40	**MBR40H35PT to MBR40H60PT**	**G**	**Plastic Power Pack[2]**	**TO-247AD (TO-3P)**	**35 to 60**	**0.63 / 0.69[4]**	**20**
40	SBL4030PT to SBL4040PT	G	Plastic Power Pack[2]	TO-247AD (TO-3P)	30 to 40	0.58	20
60	**MBR60100CT**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**100**	**0.82 / 1.0**	**30 / 60**
60	**M6035C to M6060C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**35 to 60**	**0.61/0.65[4]**	**30**
60	**M6035P to M6060P**	**G**	**Plastic Power Pack[2]**	**TO-247AD (TO-3P)**	**35 to 60**	**0.60 / 0.64[4]**	**30**

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TMBS® (Trench MOS Barrier Schottky) Rectifiers

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
2	**VSSA210**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**100**	**0.7**	**2.0**
3	**VSSA310S**	**G**	**Plastic SMD**	**DO-214AC (SMA)**	**100**	**0.8**	**3.0**
3	**VSSB310**	**G**	**Plastic SMD**	**DO-214AA(SMB)**	**100**	**0.7**	**3.0**
4	**VSSB410S**	**G**	**Plastic SMD**	**DO-214AA(SMB)**	**100**	**0.77**	**4.0**
5	**VT5200**	**G**	**Plastic Power Pack**	**TO-220AC**	**200**	**1.60**	**5.0**
5	**VFT5200**	**G**	**Isolated Power Pack**	**ITO-220AC**	**200**	**1.60**	**5.0**
5	**VBT5200**	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**200**	**1.60**	**5.0**
5	**VIT5200**	**G**	**Plastic Power Pack**	**TO-262AA**	**200**	**1.60**	**5.0**
7	**VT760**	**G**	**Plastic Power Pack**	**TO-220AC**	**60**	**0.80**	**7.5**
7	**VFT760**	**G**	**Isolated Power Pack**	**ITO-220AC**	**60**	**0.80**	**7.5**
7	**VBT760**	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**60**	**0.80**	**7.5**
7	**VIT760**	**G**	**Plastic Power Pack**	**TO-262AA**	**60**	**0.80**	**7.5**
8	**V8P10**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**100**	**0.68**	**8.0**
8	**V8P12**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**100**	**0.84**	**8.0**
10	**V10P10**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**100**	**0.68**	**10**
10	**V10P12**	**G**	**Plastic SMD**	**TO-277A (SMPC)**	**100**	**0.82**	**10**
10	**MBR1090 and MBR10100**	**G**	**Plastic Power Pack**	**TO-220AC**	**90 to 100**	**0.80**	**10**
	MBRF1090 and MBRF10100	**G**	**Isolated Power Pack**	**ITO-220AC**	**90 to 100**	**0.80**	**10**
	MBRB1090 and MBRB10100	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**90 to 100**	**0.80**	**10**
10	MBR1090CT and MBR10100CT	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.85	5.0
10	MBRF1090CT and MBRF10100CT	G	Isolated Power Pack[2]	ITO-220AB	90 to 100	0.85	5.0
10	**VT1060C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**60**	**0.70**	**5.0**
	VFT1060C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**60**	**0.70**	**5.0**
	VBT1060C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**60**	**0.70**	**5.0**
	VIT1060C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**60**	**0.70**	**5.0**
10	**VT1080C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**80**	**0.72**	**5.0**
	VFT1080C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**80**	**0.72**	**5.0**
	VBT1080C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**80**	**0.72**	**5.0**
	VIT1080C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**80**	**0.72**	**5.0**
10	**VT1080S**	**G**	**Plastic Power Pack**	**TO-220AB**	**80**	**0.81**	**10**
	VFT1080S	**G**	**Isolated Power Pack**	**ITO-220AB**	**80**	**0.81**	**10**
	VBT1080S	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**80**	**0.81**	**10**
	VIT1080S	**G**	**Plastic Power Pack**	**TO-262AA**	**80**	**0.81**	**10**

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TMBS®, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
10	**V10150C**	G	Plastic Power Pack[2]	TO-220AB	150	1.41	5
	VF10150C	G	Isolated Power Pack[2]	ITO-220AB	150	1.41	5
	VB10150C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	150	1.41	5
	VI10150C	G	Plastic Power Pack[2]	TO-262AA	150	1.41	5
10	**V10150S**	G	Plastic Power Pack	TO-220AB	150	1.2	10
	VF10150S	G	Isolated Power Pack	ITO-220AB	150	1.2	10
	VB10150S	G	Power Pack SMD	TO-263AB (D^2PAK)	150	1.2	10
	VI10150S	G	Plastic Power Pack	TO-262AA	150	1.2	10
10	**VT10200C**	G	Plastic Power Pack[2]	TO-220AB	200	1.60	5.0
	VFT10200C	G	Isolated Power Pack[2]	ITO-220AB	200	1.60	5.0
	VBT10200C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	200	1.60	5.0
	VIT10200C	G	Plastic Power Pack[2]	TO-262AA	200	1.60	5.0
12	**V12P10**	G	Plastic SMD	TO-277A (SMPC)	100	0.70	12
	V12P12	G	Plastic SMD	TO-277A (SMPC)	120	0.80	12
20	**MBR2090CT and MBR20100CT**	G	Plastic Power Pack[2]	TO-220AB	90 to 100	0.80	10
	MBRF2090CT and MBRF20100CT	G	Isolated Power Pack[2]	ITO-220AB	90 to 100	0.80	10
	MBRB2090CT and MBRB20100CT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	90 to 100	0.80	10
20	**VT2060C**	G	Plastic Power Pack[2]	TO-220AB	60	0.65	10
	VFT2060C	G	Isolated Power Pack[2]	ITO-220AB	60	0.65	10
	VBT2060C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	60	0.65	10
	VIT2060C	G	Plastic Power Pack[2]	TO-262AA	60	0.65	10
20	**VT2060G**	G	Plastic Power Pack[2]	TO-220AB	60	0.90	10
	VFT2060G	G	Isolated Power Pack[2]	ITO-220AB	60	0.90	10
	VBT2060G	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	60	0.90	10
	VIT2060G	G	Plastic Power Pack[2]	TO-262AA	60	0.90	10
20	**VT2080C**	G	Plastic Power Pack[2]	TO-220AB	80	0.81	10
	VFT2080C	G	Isolated Power Pack[2]	ITO-220AB	80	0.81	10
	VBT2080C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	80	0.81	10
	VIT2080C	G	Plastic Power Pack[2]	TO-262AA	80	0.81	10
20	**VT2080S**	G	Plastic Power Pack	TO-220AB	80	0.92	20
	VFT2080S	G	Isolated Power Pack	ITO-220AB	80	0.92	20
	VBT2080S	G	Power Pack SMD	TO-263AB (D^2PAK)	80	0.92	20
	VIT2080S	G	Plastic Power Pack	TO-262AA	80	0.92	20

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. Source: G = formerly General Semiconductor

TMBS®, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
20	**V20100C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**100**	**0.79**	**10**
	VF20100C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**100**	**0.79**	**10**
	VB20100C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**100**	**0.79**	**10**
	VI20100C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**100**	**0.79**	**10**
20	**V20100R**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**100**	**0.90**	**10**
	VF20100R	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**100**	**0.90**	**10**
20	**V20100S**	**G**	**Plastic Power Pack**	**TO-220AB**	**100**	**0.90**	**20**
	VB20100S	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**100**	**0.90**	**20**
	VF20100S	**G**	**Isolated Power Pack**	**ITO-220AB**	**100**	**0.90**	**20**
	VI20100S	**G**	**Plastic Power Pack**	**TO-262AA**	**100**	**0.90**	**20**
20	**V20100SG**	**G**	**Plastic Power Pack**	**TO-220AB**	**100**	**1.07**	**20**
	VF20100SG	**G**	**Isolated Power Pack**	**ITO-220AB**	**100**	**1.07**	**20**
	VB20100SG	**G**	**Plastic Power Pack**	**TO-263AB (D^2PAK)**	**100**	**1.07**	**20**
	VI20100SG	**G**	**Plastic Power Pack**	**TO-262AA**	**100**	**1.07**	**20**
20	**V20120C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**120**	**0.90**	**10**
	VF20120C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**120**	**0.90**	**10**
	VB20120C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**120**	**0.90**	**10**
	VI20120C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**120**	**0.90**	**10**
20	**V20120S**	**G**	**Plastic Power Pack**	**TO-220AB**	**120**	**1.12**	**20**
	VF20120S	**G**	**Isolated Power Pack**	**ITO-220AB**	**120**	**1.12**	**20**
	VB20120S	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**120**	**1.12**	**20**
	VI20120S	**G**	**Plastic Power Pack**	**TO-262AA**	**120**	**1.12**	**20**
20	**V20120SG**	**G**	**Plastic Power Pack**	**TO-220AB**	**120**	**1.33**	**20**
	VF20120SG	**G**	**Isolated Power Pack**	**ITO-220AB**	**120**	**1.33**	**20**
	VB20120SG	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**120**	**1.33**	**20**
	VI20120SG	**G**	**Plastic Power Pack**	**TO-262AA**	**120**	**1.33**	**20**
20	**V20150C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**150**	**1.20**	**10**
	VF20150C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**150**	**1.20**	**10**
	VB20150C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**150**	**1.20**	**10**
	VI20150C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**150**	**1.20**	**10**
20	**V20150S**	**G**	**Plastic Power Pack**	**TO-220AB**	**150**	**1.43**	**20**
	VF20150S	**G**	**Isolated Power Pack**	**ITO-220AB**	**150**	**1.43**	**20**
	VB20150S	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**150**	**1.43**	**20**
	VI20150S	**G**	**Plastic Power Pack**	**TO-262AA**	**150**	**1.43**	**20**

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. Source: G = formerly General Semiconductor

TMBS®, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
20	**V20150SG**	**G**	**Plastic Power Pack**	**TO-220AB**	**150**	**1.60**	**20**
	VF20150SG	**G**	**Isolated Power Pack**	**ITO-220AB**	**150**	**1.60**	**20**
	VB20150SG	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**150**	**1.60**	**20**
	VI20150SG	**G**	**Plastic Power Pack**	**TO-262AA**	**150**	**1.60**	**20**
20	**V20200C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**200**	**1.60**	**10**
	VF20200C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**200**	**1.60**	**10**
	VB20200C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**200**	**1.60**	**10**
	VI20200C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**200**	**1.60**	**10**
20	**V20200G**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**200**	**1.70**	**10**
	VF20200G	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**200**	**1.70**	**10**
	VB20200G	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**200**	**1.70**	**10**
	VI20200G	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**200**	**1.70**	**10**
30	**VT3060C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**60**	**0.70**	**15**
	VFT3060C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**60**	**0.70**	**15**
	VBT3060C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**60**	**0.70**	**15**
	VIT3060C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**60**	**0.70**	**15**
30	**VT3060G**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**60**	**0.73**	**15**
	VFT3060G	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**60**	**0.73**	**15**
	VBT3060G	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**60**	**0.73**	**15**
	VIT3060G	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**60**	**0.73**	**15**
30	**VT3080C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**80**	**0.82**	**15**
	VFT3080C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**80**	**0.82**	**15**
	VBT3080C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**80**	**0.82**	**15**
	VIT3080C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**80**	**0.82**	**15**
30	**VT3080S**	**G**	**Plastic Power Pack**	**TO-220AB**	**80**	**0.95**	**30**
	VFT3080S	**G**	**Isolated Power Pack**	**ITO-220AB**	**80**	**0.95**	**30**
	VBT3080S	**G**	**Power Pack SMD**	**TO-263AB (D^2PAK)**	**80**	**0.95**	**30**
	VIT3080S	**G**	**Plastic Power Pack**	**TO-262AA**	**80**	**0.95**	**30**
30	**V30100C**	**G**	**Plastic Power Pack[2]**	**TO-220AB**	**100**	**0.80**	**15**
	VF30100C	**G**	**Isolated Power Pack[2]**	**ITO-220AB**	**100**	**0.80**	**15**
	VB30100C	**G**	**Power Pack SMD[2]**	**TO-263AB (D^2PAK)**	**100**	**0.80**	**15**
	VI30100C	**G**	**Plastic Power Pack[2]**	**TO-262AA**	**100**	**0.80**	**15**

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. Source: G = formerly General Semiconductor

TMBS®, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
30	**V30100S**	G	Plastic Power Pack	TO-220AB	100	0.91	30
	VF30100S	G	Isolated Power Pack	ITO-220AB	100	0.91	30
	VB30100S	G	Power Pack SMD	TO-263AB (D^2PAK)	100	0.91	30
	VI30100S	G	Plastic Power Pack	TO-262AA	100	0.91	30
30	**V30100SG**	G	Plastic Power Pack	TO-220AB	120	1.00	30
	VF30100SG	G	Isolated Power Pack	ITO-220AB	120	1.00	30
	VB30100SG	G	Power Pack SMD	TO-263AB (D^2PAK)	120	1.00	30
	VI30100SG	G	Plastic Power Pack	TO-262AA	120	1.00	30
30	**V30120C**	G	Plastic Power Pack[2]	TO-220AB	120	0.97	15
	VF30120C	G	Isolated Power Pack[2]	ITO-220AB	120	0.97	15
	VB30120C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	120	0.97	15
	VI30120C	G	Plastic Power Pack[2]	TO-262AA	120	0.97	15
30	**V30120S**	G	Plastic Power Pack	TO-220AB	120	1.10	30
	VF30120S	G	Isolated Power Pack	ITO-220AB	120	1.10	30
	VB30120S	G	Power Pack SMD	TO-263AB (D^2PAK)	120	1.10	30
	VI30120S	G	Plastic Power Pack	TO-262AA	120	1.10	30
30	**V30120SG**	G	Plastic Power Pack	TO-220AB	120	1.28	30
	VF30120SG	G	Isolated Power Pack	ITO-220AB	120	1.28	30
	VB30120SG	G	Power Pack SMD	TO-263AB (D^2PAK)	120	1.28	30
	VI30120SG	G	Plastic Power Pack	TO-262AA	120	1.28	30
30	**V30150C**	G	Plastic Power Pack[2]	TO-220AB	150	1.36	15
	VF30150C	G	Isolated Power Pack[2]	ITO-220AB	150	1.36	15
	VB30150C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	150	1.36	15
	VI30150C	G	Plastic Power Pack[2]	TO-262AA	150	1.36	15
30	**V30200C**	G	Plastic Power Pack[2]	TO-220AB	200	1.10	15
	VF30200C	G	Isolated Power Pack[2]	ITO-220AB	200	1.10	15
	VB30200C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	200	1.10	15
	VI30200C	G	Plastic Power Pack[2]	TO-262AA	200	1.10	15
30	**V30100PW**	G	Plastic Power Pack[2]	TO-3PW	100	0.91	15
40	**V40100C**	G	Plastic Power Pack[2]	TO-220AB	100	0.73	20
	VF40100C	G	Isolated Power Pack[2]	ITO-220AB	100	0.73	20
	VB40100C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	100	0.73	20
	VI40100C	G	Plastic Power Pack[2]	TO-262AA	100	0.73	20

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. Source: G = formerly General Semiconductor

TMBS®, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F	
			Family	Type		(V)	(A)
40	**V40100G**	G	Plastic Power Pack[2]	TO-220AC	100	0.81	20
	VF40100G	G	Isolated Power Pack[2]	ITO-220AB	100	0.81	20
	VB40100G	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	100	0.81	20
	VI40100G	G	Plastic Power Pack[2]	TO-262AA	100	0.81	20
40	**V40100K**	G	Plastic Power Pack[2]	TO-220AB	100	0.82	20
40	**V40120C**	G	Plastic Power Pack[2]	TO-220AB	120	0.88	20
	VF40120C	G	Isolated Power Pack[2]	ITO-220AB	120	0.88	20
	VB40120C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	120	0.88	20
	VI40120C	G	Plastic Power Pack[2]	TO-262AA	120	0.88	20
40	**V40150C**	G	Plastic Power Pack[2]	TO-220AB	150	1.43	20
	VF40150C	G	Isolated Power Pack[2]	ITO-220AB	150	1.43	20
	VB40150C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	150	1.43	20
	VI40150C	G	Plastic Power Pack[2]	TO-262AA	150	1.43	20
40	**V40100PW**	G	Plastic Power Pack[2]	TO-3PW	100	0.77	20
40	**V40100PGW**	G	Plastic Power Pack[2]	TO-3PW	100	0.85	20
50	**V50100PW**	G	Plastic Power Pack[2]	TO-3PW	100	0.84	25
60	**V60100C**	G	Plastic Power Pack[2]	TO-220AB	100	0.79	30
	VB60100C	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	100	0.79	30
60	**V60120C**	G	Plastic Power Pack[2]	TO-220AB	120	0.95	30
	VB60120C	G	Plastic Power Pack[2]	TO-263AB (D^2PAK)	120	0.95	30
60	**V60100PW**	G	Plastic Power Pack[2]	TO-3PW	100	0.86	30
60	**V60200PGW**	G	Plastic Power Pack[2]	TO-3PW	200	1.48	30
80	**V80100PW**	G	Plastic Power Pack[2]	TO-3PW	100	0.84	40

Note:
1. Bold text indicates new product
2. Dual center-tapped device (V_F limit @ I_F is per diode)
3. Source: G = formerly General Semiconductor

The Vishay portfolio of Schottky diodes offers the industry's widest range of current and voltage ratings in a broad range of through-hole and surface-mount packages. Addressing every application area where Schottky diodes are used, these high-performance devices are built by Vishay on well-established with planar technology as well as on our leading-edge submicron trench technology. Gen 5.0 trench based devices feature a maximum junction temperature of 175 °C and voltage ratings of 45 V and 100 V. Gen 2.0 and Gen 3.1 planar technology devices feature 125 °C, 150 °C, or 175 °C maximum junction temperatures and several voltage rating options from 15 V to 150 V. Both device types offer specific advantages based on the final customer application, Including superior efficiency, robust avalanche capability, and the ability to withstand voltage spikes.

HPS GEN 5.0 (Submicron Trench Technology)

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Tj Max (°C)
			Family	Type		(V)	(A)	
8	8TT100	I	Power Plastic Through Hole[2][7]	TO-220AC	100	0.58	8	175
10	MBR10T100	I	Power Plastic Through Hole[2][7]	TO-220AC	100	0.68	10	175
15	15TT100	I	Power Plastic Through Hole[2][7]	TO-220AC	100	0.67	15	175
16	16CTT100	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.69	8	175
20	20TT100	I	Power Plastic Through Hole[2][7]	TO-220AB	100	0.67	20	175
20	MBR20T100CT	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.8	10	175
20	21TT100	I	Power Plastic Through Hole[2][7]	TO-220AC	100	0.68	20	175
30	30CTT100	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.79	15	175
40	43CTT100	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.8	20	175
30	30CTT045	I	Power Plastic Through Hole[1][7]	TO-220AB	45	0.5	15	175
30	30CTT050-F	I	Power Plastic Through Hole[1][7]	TO-220AB	50	0.5	15	175
18	18TT045-F	I	Power Plastic Through Hole[2][7]	TO-220AC	45	0.5	18	175
30	30PT100	I	Power Plastic Through Hole[2][7]	TO-247AC	100	0.64	30	175
30	30CPT100	I	Power Plastic Through Hole[1][7]	TO-247AB	100	0.79	15	175
60	63CPT100	I	Power Plastic Through Hole[1][7]	TO-247AB	100	0.76	30	175
60	60CPT045	I	Power Plastic Through Hole[1][7]	TO-247AB	45	0.5	30	175
40	MBR40H100WT-F	I	Power Plastic Through Hole[1][7]	TO-247AB	100	0.63	20	175
6	6CUT04	I	Power Plastic SMD[2][3][7]	TO-251 – I-Pak	40	0.485	3	175
6	6CWT04FN	I	Power Plastic SMD[1][3][7]	TO-252 – D-Pak	40	0.485	3	175
10	10UT10	I	Power Plastic SMD[2][3][7]	TO-251 – I-Pak	100	0.53	10	175
10	10WT10FN	I	Power Plastic SMD[2][3][7]	TO-252 – D-Pak	100	0.53	10	175
20	20CUT10	I	Power Plastic SMD[1][3][7]	TO-251 – I-Pak	100	0.615	10	175
20	20CWT10FN	I	Power Plastic SMD[1][3][7]	TO-252 – D-Pak	100	0.615	10	175
20	20UT04	I	Power Plastic SMD[2][3][7]	TO-251 – I-Pak	40	0.415	20	175
20	20WT04FN	I	Power Plastic SMD[2][3][7]	TO-252 – D-Pak	40	0.415	20	175

Note:
1. Dual center-tapped device (V_F limit @ I_F is per diode)
2. Singled die device
3. x designates tube or tape&reel version on SMD products
   none = tube
   TR = tape and reel centered
   TRL = tape and reel left oriented
   TRR = tape and reel right oriented
4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free
7. Q101
8. Leaded

HPS GEN 3.x (Planar Technology)

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Tj Max (°C)
			Family	Type		(V)	(A)	
5	50SQ100G	I	Plastic Axial[3]	DO-204AR	60 - 80 - 100	0.52	5	175
3	30BQ100GPBF	I	Plastic SMD[3]	SMC	100	0.62	3	175
8	VS-8TQ100GSPBF	I	Power Plastic SMD[1][3][6][7]	D^2PAK	80 to 100	0.58	8	175
16	VS-16CTQ100GSPBF	I	Power Plastic SMD[2][3][6][7]	D^2PAK	60 - 80 - 100	0.69	8	175
20	VS-MBRB20100CTGPBF	I	Power Plastic SMD[2][3][6][7]	D^2PAK	100	0.85	10	175
30	VS-30CTQ100GSPBF	I	Power Plastic SMD[2][3][6][7]	D^2PAK	80 to100	0.82	15	175
40	VS-43CTQ100GSPBF	I	Power Plastic SMD[2][3][6][7]	D^2PAK	80 to100	0.81	20	175
8	8TQ100GPBF	I	Power Plastic Through Hole[2][7]	TO-220	60 - 80 - 100	0.58	8	175
16	16CTQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-220	60 - 80 - 100	0.69	8	175
30	30CTQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-220	80 to 100	0.82	15	175
60	63CTQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-220	100	0.83	30	175
40	43CTQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-220	100	0.81	20	175
16	16CTQ100G-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262	80 to 100	0.69	8	175
20	MBR20100CTG-1P	I	Power Plastic Through Hole[1][6][7]	TO-262	80 to 100	0.85	10	175
30	30CTQ100G-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262	80 to 100	0.82	15	175
40	43CTQ100G-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262	80 to 100	0.81	20	175
30	30CPQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-247	80 to 100	0.81	15	175
40	40CPQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-247	80 to 100	0.75	20	175
60	63CPQ100GPBF	I	Power Plastic Through Hole[1][7]	TO-247	80 to 100	0.76	30	175

Note:
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4. Source: I = formerly International Rectifier Diode unit
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7.Q101
8. Leaded

HPS GEN 2.x (Planar Technology)

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
3.3	31DQ10	I	Plastic Axial[3]	C-16	90 to 100	0.69	3	150
3	MBR360	I	Plastic Axial[3]	C-16	50 to 60	0.64	3	150
3.3	31DQ06	I	Plastic Axial[3]	C-16	50 to 60	0.54	3	150
3.3	31DQ04	I	Plastic Axial[3]	C-16	30 to 40	0.51	3	150
3	1N5820	I	Plastic Axial[3]	C-16	20	0.47	3	150
1	MBR1100	I	Plastic Axial[3]	DO-204AL	100	0.68	1	150
1.1	11DQ10	I	Plastic Axial[3]	DO-204AL	90 to 100	0.68	1	150
1	MBR160	I	Plastic Axial[3]	DO-204AL	50 to 60	0.65	1	150
1.1	11DQ06	I	Plastic Axial[3]	DO-204AL	50 to 60	0.53	1	150
2	21DQ06	I	Plastic Axial[3]	DO-204AL	60	0.55	2	150
1	1N5819	I	Plastic Axial[3]	DO-204AL	30 to 40	0.55	1	150
1.1	11DQ04	I	Plastic Axial[3]	DO-204AL	30 to 40	0.5	1	150
2	21DQ04	I	Plastic Axial[3]	DO-204AL	40	0.5	2	150
3	MBR340	I	Plastic Axial[3]	DO-204AL	40	0.49	3	150
1	1N5817	I	Plastic Axial[3]	DO-204AL	20	0.45	1	150
5	50SQ060	I	Plastic Axial[3]	DO-204AR	60	0.52	5	175
5	50SQ100	I	Plastic Axial[3]	DO-204AR	80 to 100	0.52	5	175
8	80SQ045	I	Plastic Axial[3]	DO-204AR	35 - 40 - 45	0.44	8	175
9	90SQ045	I	Plastic Axial[3]	DO-204AR	35 - 40 - 45	0.42	9	150
9	90SQ030	I	Plastic Axial[3]	DO-204AR	30	0.42	9	150
9	95SQ015	I	Plastic Axial[3]	DO-204AR	15	0.3	9	125
15	**VS-150SQ045**	**I**	**Plastic Axial[3]**	**DO-204AR**	**45**	**0.64**	**15**	**150**
1.5	**VS-10MQ100N-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**100**	**0.68**	**1.5**	**150**
1.5	VS-10MQ100NPBF	I	Plastic SMD[3]	SMA	100	0.68	1.5	150
2	**VS-20MQ100-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**100**	**0.72**	**2**	**150**
1.5	**VS-10MQ060N-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**60**	**0.63**	**1.5**	**150**
1.5	VS-10MQ060NPBF	I	Plastic SMD[3]	SMA	60	0.63	1.5	150
2	**VS-20MQ060-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**60**	**0.68**	**2**	**150**
1	VS-MBRA140PBF	I	Plastic SMD[3]	SMA	40	0.49	1	150
1.5	**VS-10MQ040N-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**40**	**0.56**	**1.5**	**150**
1.5	VS-10MQ040NPBF	I	Plastic SMD[3]	SMA	40	0.56	1.5	150
2	**VS-20MQ040-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**40**	**0.63**	**2**	**150**
2.1	**VS-15MQ040N-M3**	**I**	**Plastic SMD[3][6][7]**	**SMA**	**40**	**0.43**	**2**	**150**
2.1	**VS-15MQ040NPBF**	**I**	**Plastic SMD[3]**	**SMA**	**40**	**0.43**	**2**	**150**

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
3	**VS-30MQ040-M3**	**I**	**Plastic SMD**[3][6][7]	**SMA**	**40**	**0.45**	**3**	**150**
1	VS-MBRA120PBF	I	Plastic SMD[3]	SMA	20	0.35	1	150
1	**VS-10BQ100-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**100**	**0.62**	**1**	**175**
1	VS-10BQ100PBF	I	Plastic SMD[3]	SMB	100	0.62	1	175
1	VS-MBRS1100PBF	I	Plastic SMD[3]	SMB	90 to 100	0.62	1	175
1	**VS-10BQ060-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**60**	**0.57**	**1**	**150**
1	VS-10BQ060PBF	I	Plastic SMD[3]	SMB	60	0.57	1	150
1	**VS-10BQ040-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**40**	**0.49**	**1**	**150**
1	VS-10BQ040PBF	I	Plastic SMD[3]	SMB	40	0.49	1	150
1	VS-MBRS140PBF	I	Plastic SMD[3]	SMB	40	0.53	1	150
1	**VS-10BQ030-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**30**	**0.3**	**1**	**150**
1	VS-10BQ030PBF	I	Plastic SMD[3]	SMB	30	0.3	1	150
1	**VS-MBRS130LPBF**	**I**	**Plastic SMD**[3]	**SMB**	**30**	**0.3**	**1**	**125**
1	VS-MBRS130PBF	I	Plastic SMD[3]	SMB	30	0.42	1	125
2	**VS-20BQ030-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**30**	**0.37**	**2**	**150**
2	VS-20BQ030PBF	I	Plastic SMD[3]	SMB	30	0.37	2	150
1	VS-MBRS120PBF	I	Plastic SMD[3]	SMB	20	0.35	1	150
1	**VS-10BQ015-M3**	**I**	**Plastic SMD**[3][6][7]	**SMB**	**15**	**0.32**	**1**	**125**
1	VS-10BQ015PBF	I	Plastic SMD[3]	SMB	15	0.32	1	125
3	**VS-30BQ100-M3**	**I**	**Plastic SMD**[3][6][7]	**SMC**	**100**	**0.62**	**3**	**175**
3	VS-30BQ100PBF	I	Plastic SMD[3]	SMC	100	0.62	3	175
3	**VS-30BQ060-M3**	**I**	**Plastic SMD**[3][6][7]	**SMC**	**60**	**0.52**	**3**	**150**
3	VS-30BQ060PBF	I	Plastic SMD[3]	SMC	60	0.52	3	150
3	VS-MBRS360PBF	I	Plastic SMD[3]	SMC	60	0.61	3	150
3	**VS-30BQ040-M3**	**I**	**Plastic SMD**[3][6][7]	**SMC**	**40**	**0.43**	**3**	**150**
3	VS-30BQ040PBF	I	Plastic SMD[3]	SMC	40	0.43	3	150
3	VS-MBRS340PBF	I	Plastic SMD[3]	SMC	40	0.43	3	150
3	VS-MBRS320PBF	I	Plastic SMD[3]	SMC	20	0.36	3	150
3	**VS-30BQ015-M3**	**I**	**Plastic SMD**[3][6][7]	**SMC**	**15**	**0.3**	**3**	**125**
3	VS-30BQ015PBF	I	Plastic SMD[3]	SMC	15	0.3	3	125
3.5	30WQ10FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	100	0.63	3	150
5.5	50WQ10FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	100	0.63	5	150
6	6CWQ10FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	100	0.74	6	150
12	12CWQ10FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	100	0.78	6	150
3.5	30WQ06FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	60	0.53	3	150

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
5.5	50WQ06FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	60	0.54	5	150
6	MBRD660CTPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	50 to 60	0.65	3	150
6	6CWQ06FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	60	0.65	3	150
12	12CWQ06FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	60	0.72	6	150
10	10WQ045FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	45	0.53	10	175
3	MBRD340PBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	40	0.49	3	150
3.5	30WQ04FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	40	0.49	3	150
5.5	50WQ04FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	40	0.44	5	150
6	6CWQ04FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	40	0.62	6	150
12	12CWQ04FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	40	0.64	6	150
3	MBRD330PBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	30	0.49	3	150
3.5	30WQ03FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	30	0.35	3	150
5.5	50WQ03FNPBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	30	0.35	5	150
6	6CWQ03FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	30	0.46	6	150
12	12CWQ03FNPBF	I	Power Plastic SMD[1][3][7]	TO-252 - DPAK	30	0.49	6	150
3	MBRD320PBF	I	Power Plastic SMD[2][3][7]	TO-252 - DPAK	20	0.49	3	150
10	VS-10CTQ150SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	150	0.86	5	175
20	VS-20CTQ150SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	150	0.77	10	175
40	VS-40CTQ150SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	150	0.85	20	175
8	VS-8TQ100SPBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	80 to 100	0.58	8	175
16	VS-16CTQ100SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	80 to 100	0.69	8	175
20	VS-MBRB20100CTPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	80 - 90 - 100	0.85	10	150
30	VS-30CTQ100SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	80 to 100	0.82	15	175
15	VS-15TQ060SPBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	60	0.56	15	150
30	VS-30CTQ060SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	60	0.71	15	150
40	VS-48CTQ060SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	60	0.75	20	150
6	VS-6TQ045SPBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.53	6	175
7.5	VS-MBRB745PBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.57	7.5	150
10	VS-10TQ045SPBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.49	10	175
10	VS-MBRB1045PBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.57	10	150
12	VS-12CTQ045SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.64	6	175
12	VS-12TQ045SPBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.5	15	150
15	VS-15CTQ045SPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.65	7.5	150
15	VS-MBRB1545CTPBF	I	Power Plastic SMD[1][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.72	7.5	150
16	VS-MBRB1645PBF	I	Power Plastic SMD[2][3][6][7]	TO-263AB (D^2PAK)	35 - 40 - 45	0.57	16	150

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
18	VS-18TQ045SPBF	I	Power Plastic SMD[2)(3)(6)(7)]	TO-263AB (D^2PAK)	35 - 40 - 45	0.53	18	175
20	VS-20CTQ045SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	35 - 40 - 45	0.68	10	175
20	VS-20TQ045SPBF	I	Power Plastic SMD[2)(3)(6)(7)]	TO-263AB (D^2PAK)	35 - 40 - 45	0.51	10	150
20	VS-MBRB2045CTPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	35 - 40 - 45	0.72	10	150
25	VS-25CTQ045SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	35 - 40 - 45	0.64	12.5	150
30	VS-30CTQ045SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	45	0.7	15	175
25	VS-MBRB2545CTPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	45	0.73	12.5	150
30	VS-MBRB3045CTPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	45	0.72	15	150
40	VS-40CTQ045SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	45	0.67	20	150
40	VS-MBRB4045CTPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	45	0.75	20	150
30	VS-32CTQ030SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	30	0.53	15	150
30	VS-MBRB3030CTLPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	30	0.51	15	150
40	VS-42CTQ030SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	30	0.51	20	150
40	VS-47CTQ020SPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	20	0.42	20	150
19	VS-19TQ015SPBF	I	Power Plastic SMD[2)(3)(6)(7)]	TO-263AB (D^2PAK)	15	0.32	19	125
20	VS-20L15TSPBF	I	Power Plastic SMD[2)(3)(6)(7)]	TO-263AB (D^2PAK)	15	0.33	20	125
40	VS-40L15CTSPBF	I	Power Plastic SMD[1)(3)(6)(7)]	TO-263AB (D^2PAK)	15	0.5	20	125
10	VS-10CTQ150-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	150	0.86	5	175
20	VS-20CTQ150-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	150	0.77	10	175
40	VS-40CTQ150-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	150	0.85	20	175
16	VS-16CTQ100-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	80 to 100	0.69	8	175
20	VS-MBR20100CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	80 - 90 - 100	0.85	10	150
30	VS-30CTQ100-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	80 to 100	0.82	15	175
40	VS-43CTQ100-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	80 to 100	0.81	20	175
30	VS-30CTQ060-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	60	0.71	15	150
40	VS-48CTQ060-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	60	0.75	20	150
15	VS-MBR1545CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	35 - 40 - 45	0.72	7.5	150
20	VS-20CTQ045-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	45	0.68	10	175
20	VS-MBR2045CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	35 - 40 - 45	0.72	10	150
25	VS-MBR2545CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	35 - 40 - 45	0.73	12.5	150
30	VS-30CTQ045-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	45	0.7	15	175
30	VS-MBR3045CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	45	0.72	15	150
40	VS-40CTQ045-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	45	0.67	20	150
40	VS-MBR4045CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	45	0.75	20	150
30	VS-30L30CT-1PBF	I	Power Plastic Through Hole[1)(6)(7)]	TO-262 (I^2PAK)	30	0.5	15	150

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
30	VS-32CTQ030-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262 (I^2PAK)	30	0.53	15	150
40	VS-42CTQ030-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262 (I^2PAK)	30	0.51	20	150
40	VS-47CTQ020-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262 (I^2PAK)	20	0.42	20	150
40	VS-40L15CT-1PBF	I	Power Plastic Through Hole[1][6][7]	TO-262 (I^2PAK)	15	0.5	20	125
10	10CTQ150PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	150	0.86	5	175
20	20CTQ150PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	150	0.77	10	175
40	40CTQ150PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	150	0.85	20	175
60	60CTQ150PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	150	0.87	30	175
8	8TQ100PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	80 to 100	0.69	8	175
16	16CTQ100PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	80 to 100	0.69	8	175
30	30CTQ100PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	80 to 100	0.82	15	175
40	43CTQ100PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.81	20	175
60	63CTQ100PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	100	0.83	30	175
15	15TQ060PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	60	0.56	15	150
16	16CTQ060PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	60	0.69	8	175
30	30CTQ060PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	50 to 60	0.71	15	150
40	48CTQ060PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	60	0.75	20	150
18	18TQ050PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	50	0.53	18	175
6	6TQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.53	6	175
7.5	MBR745PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.57	7.5	150
10	10TQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.49	10	175
10	MBR1045PBF	I	Power Plastic Through Hole[2][7]	TO-220AB	35 - 40 - 45	0.57	10	150
12	12CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.64	6	175
12	12TQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.5	12	150
15	15CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.65	7.5	150
15	MBR1545CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.72	7.5	150
16	MBR1645PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.57	16	150
18	18TQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.53	18	175
20	20CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.68	10	175
20	20TQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.51	10	150
20	MBR2045CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.72	10	150
25	25CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.64	12.5	150
30	30CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	35 - 40 - 45	0.7	15	175
25	MBR2545CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	45	0.73	12.5	150
30	MBR3045CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	45	0.72	15	150

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
40	40CTQ045PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	45	0.67	20	150
40	MBR4045CTPBF	I	Power Plastic Through Hole[2][7]	TO-220AC	45	0.75	20	150
60	60CTQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.75	30	150
60	61CTQ045PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	35 - 40 - 45	0.74	30	175
30	30L30CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	30	0.5	15	150
30	32CTQ030PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	25 to 30	0.53	15	150
40	42CTQ030PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	30	0.51	20	150
60	62CTQ030PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	30	0.59	30	150
40	47CTQ020PBF	I	Power Plastic Through Hole[1][7]	TO-220AB	20	0.42	20	150
19	19TQ015PBF	I	Power Plastic Through Hole[2][7]	TO-220AC	15	0.32	19	125
20	20L15TPBF	I	Power Plastic Through Hole[2][7]	TO-220AC	15	0.33	20	125
40	40L15CTPBF	I	Power Plastic Through Hole[1][7]	TO-220AB	15	0.5	20	125
30	30CPQ150PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	150	0.93	15	175
60	60CPQ150PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	150	0.77	30	175
80	80CPQ150PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	150	0.85	40	175
30	30CPQ100PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	80 - 90 - 100	0.81	15	175
40	40CPQ100PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	80 to 100	0.75	20	175
60	63CPQ100PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	100	0.76	30	175
30	30CPQ060PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	50 to 60	0.7	15	150
40	40CPQ060PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	50 to 60	0.64	20	150
40	MBR4060WTPBF	I	Power Plastic Through Hole[2][7]	TO-247AC	60	0.62	40	150
30	30CPQ045PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	35 - 40 - 45	0.64	15	150
30	MBR3045WTPBF	I	Power Plastic Through Hole[1][7]	TO-247AB	35 - 40 - 45	0.72	30	150
40	40CPQ045PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	25 - 40 - 45	0.56	20	150
40	40L45CWPBF	I	Power Plastic Through Hole[1][7]	TO-247AB	45	0.7	20	150
40	MBR4045WTPBF	I	Power Plastic Through Hole[2][7]	TO-247AC	45	0.72	40	150
60	MBR6045WTPBF	I	Power Plastic Through Hole[2][7]	TO-247AC	45	0.55	30	150
40	40L40CWPBF	I	Power Plastic Through Hole[1][7]	TO-247AB	40	0.7	20	150
50	52CPQ030PBF	I	Power Plastic Through Hole[2][7]	TO-247AC	30	0.49	25	150
70	72CPQ030PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	30	0.58	35	150
80	80CPQ020PBF	I	Power Plastic Through Hole[1][7]	TO-247AB	20	0.46	40	150
40	40L15CWPBF	I	Power Plastic Through Hole[1][7]	TO-247AB	15	0.5	40	125
40	MBR40L15CWPBF	I	Power Plastic Through Hole[2][7]	TO-247AC	15	0.5	20	125
65	65PQ015PBF	I	Power Plastic Through Hole[2][7]	TO-247AC	15	0.46	65	125
80	83CNQ100A	I	Power Plastic Through Hole[1][8]	D61-8	80 to 100	0.82	40	175

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
80	**VS-83CNQ100APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**80 to 100**	**0.82**	**40**	**175**
110	VS-113CNQ100A	I	Power Plastic Through Hole[1][8]	D61-8	100	0.79	33	175
110	**VS-113CNQ100APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**100**	**0.79**	**33**	**175**
80	VS-88CNQ060A	I	Power Plastic Through Hole[1][8]	D61-8	60	0.67	40	150
80	**VS-88CNQ060APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**60**	**0.67**	**40**	**150**
80	VS-80CNQ045A	I	Power Plastic Through Hole[1][8]	D61-8	40 to 45	0.61	40	150
80	**VS-80CNQ045APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**40 to 45**	**0.61**	**40**	**150**
80	VS-81CNQ045A	I	Power Plastic Through Hole[1][8]	D61-8	40 to 45	0.66	40	175
80	**VS-81CNQ045APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**40 to 45**	**0.66**	**40**	**175**
110	VS-110CNQ045A	I	Power Plastic Through Hole[1][8]	D61-8	45	0.69	55	150
110	**VS-110CNQ045APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**45**	**0.69**	**55**	**150**
110	VS-111CNQ045A	I	Power Plastic Through Hole[1][8]	D61-8	45	0.69	55	175
110	**VS-111CNQ045APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**45**	**0.69**	**55**	**175**
80	VS-82CNQ030A	I	Power Plastic Through Hole[1][8]	D61-8	30	0.47	40	150
80	**VS-82CNQ030APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**30**	**0.47**	**40**	**150**
110	VS-112CNQ030A	I	Power Plastic Through Hole[1][8]	D61-8	30	0.51	55	150
110	**VS-112CNQ030APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**30**	**0.51**	**55**	**150**
80	VS-87CNQ020A	I	Power Plastic Through Hole[1][8]	D61-8	20	0.39	40	150
80	**VS-87CNQ020APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**20**	**0.39**	**40**	**150**
80	VS-85CNQ015A	I	Power Plastic Through Hole[1][8]	D61-8	15	0.42	40	125
80	**VS-85CNQ015APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**15**	**0.42**	**40**	**125**
110	VS-115CNQ015A	I	Power Plastic Through Hole[1][8]	D61-8	15	0.43	55	125
110	**VS-115CNQ015APBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8**	**15**	**0.43**	**55**	**125**
80	VS-83CNQ100ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	80 to 100	0.82	40	175
80	**VS-83CNQ100ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**80 to 100**	**0.82**	**40**	**175**
110	VS-113CNQ100ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	100	0.79	55	175
110	**VS-113CNQ100ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**100**	**0.79**	**55**	**175**
80	VS-88CNQ060ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	60	0.67	40	150
80	**VS-88CNQ060ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**60**	**0.67**	**40**	**150**
80	VS-80CNQ045ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	35 - 40 - 45	0.61	40	150
80	**VS-80CNQ045ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**35 - 40 - 45**	**0.61**	**40**	**150**
80	VS-81CNQ045ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	35 - 40 - 45	0.66	40	175
80	**VS-81CNQ045ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**35 - 40 - 45**	**0.66**	**40**	**175**
110	VS-110CNQ045ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	40 to 45	0.69	55	150
110	**VS-110CNQ045ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**40 to 45**	**0.69**	**55**	**150**

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HPS GEN 2.x (Planar Technology), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
110	VS-111CNQ045ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	45	0.69	55	175
110	**VS-111CNQ045ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**45**	**0.69**	**55**	**175**
80	VS-82CNQ030ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	30	0.47	40	150
80	**VS-82CNQ030ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**30**	**0.47**	**40**	**150**
110	VS-112CNQ030ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	30	0.51	55	150
110	**VS-112CNQ030ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**30**	**0.51**	**55**	**150**
80	VS-87CNQ020ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	20	0.39	40	150
80	**VS-87CNQ020ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**20**	**0.39**	**40**	**150**
80	VS-85CNQ015ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	15	0.42	40	125
80	**VS-85CNQ015ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**15**	**0.42**	**40**	**125**
110	VS-115CNQ015ASL	I	Power Plastic Through Hole[1][8]	D61-8-SL	15	0.43	55	125
110	**VS-115CNQ015ASLPBF**	**I**	**Power Plastic Through Hole[1]**	**D61-8-SL**	**15**	**0.43**	**55**	**125**
80	VS-83CNQ100ASM	I	Power Plastic SMD [1][8]	D61-8-SM	80 to 100	0.82	40	175
80	**VS-83CNQ100ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**80 to 100**	**0.82**	**40**	**175**
110	VS-113CNQ100ASM	I	Power Plastic SMD[1][8]	D61-8-SM	100	0.79	55	175
110	**VS-113CNQ100ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**100**	**0.79**	**55**	**175**
80	VS-88CNQ060ASM	I	Power Plastic SMD[1][8]	D61-8-SM	60	0.67	40	150
80	**VS-88CNQ060ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**60**	**0.67**	**40**	**150**
80	VS-80CNQ045ASM	I	Power Plastic SMD[1][8]	D61-8-SM	35 - 40 - 45	0.61	40	150
80	**VS-80CNQ045ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**35 - 40 - 45**	**0.61**	**40**	**150**
80	VS-81CNQ045ASM	I	Power Plastic SMD [1][8]	D61-8-SM	35 - 40 - 45	0.66	40	175
80	**VS-81CNQ045ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**35 - 40 - 45**	**0.66**	**40**	**175**
110	VS-110CNQ045ASM…	I	Power Plastic SMD[1][8]	D61-8-SM	45	0.69	55	150
110	**VS-110CNQ045ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**45**	**0.69**	**55**	**150**
110	VS-111CNQ045ASM	I	Power Plastic SMD[1][8]	D61-8-SM	45	0.69	55	175
110	**VS-111CNQ045ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**45**	**0.69**	**55**	**175**
80	VS-82CNQ030ASM	I	Power Plastic SMD[1][8]	D61-8-SM	30	0.47	40	150
80	**VS-82CNQ030ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**30**	**0.47**	**40**	**150**
110	VS-112CNQ030ASM	I	Power Plastic SMD[1][8]	D61-8-SM	30	0.51	55	150
110	**VS-112CNQ030ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**30**	**0.51**	**55**	**150**
80	VS-87CNQ020ASM	I	Power Plastic SMD[1][8]	D61-8-SM	20	0.39	40	150
80	**VS-87CNQ020ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**20**	**0.39**	**40**	**150**
80	VS-85CNQ015ASM	I	Power Plastic SMD[1][8]	D61-8-SM	15	0.42	40	125
80	**VS-85CNQ015ASMPBF**	**I**	**Power Plastic SMD[1]**	**D61-8-SM**	**15**	**0.42**	**40**	**125**
110	VS-115CNQ015ASM	I	Power Plastic SMD[1][8]	D61-8-SM	15	0.43	55	125

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$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		T_j Max (°C)
			Family[3]	Type		(V)	(A)	
110	**VS-115CNQ015ASMPBF**	**I**	**Power Plastic SMD**[1]	**D61-8-SM**	**15**	**0.43**	**55**	**125**
100	100BGQ100	I	Power Plastic Through Hole[2]	PowerTab™	100	0.77	100	175
175	175BGQ100	I	Power Plastic Through Hole[2]	PowerTab™	100	0.95	175	175
100	100BGQ045	I	Power Plastic Through Hole[2]	PowerTab™	45	0.68	100	150
175	175BGQ045	I	Power Plastic Through Hole[2]	PowerTab™	45	0.64	175	150
100	100BGQ030	I	Power Plastic Through Hole[2]	PowerTab™	30	0.51	100	150
175	175BGQ030	I	Power Plastic Through Hole[2]	PowerTab™	30	0.49	175	150
100	100BGQ015	I	Power Plastic Through Hole[2]	PowerTab™	15	0.42	100	125

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Ultrafast Recovery Rectifiers have very fast reverse recovery times (as low as 15 ns) and voltage levels as high as 1500 V. They are ideally suited for very high frequency switching power supplies, inverters, and freewheeling diodes. Both platinum-doped types with excellent high-temperature leakage current and gold-doped types for soft reverse recovery with excellent recovery temperature stability are offered.

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F		t_{rr}
			Family[3]	Type		(V)	(A)	(ns)
0.6	UG06A to UG06D	G	Plastic Axial[2]	MPG06	50 to 200	0.95	0.6	15
1.0	ES1A to ES1D	G	Plastic SMD[2]	DO-214AC (SMA)	50 to 200	0.92	1.0	15
1.0	**ES1PB, ES1PC, and ES1PD**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**50 to 200**	**0.865 / 0.92**	**0.6 / 1.0**	**15**
1.0	ESH1B, ESH1C, and ESH1D	G	Plastic SMD[2]	DO-214AC (SMA)	100 to 200	0.87 / 0.90	0.7 / 1.0	25
1.0	**ESH1PB, ESH1PC, and ESH1PD**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 200**	**0.86 / 0.90**	**0.7 / 1.0**	**25**
1.0	**MUH1PB, MUH1PC, and MUH1PD**	**G**	**Plastic SMD[4]**	**MicroSMP**	**100 to 200**	**1.05**	**1.0**	**25**
1.0	MUR120	G	Plastic Axial[2]	DO-204AC (DO-15)	200	0.88	1.0	25
1.0	MUR140 and MUR160	G	Plastic Axial[2]	DO-204AC (DO-15)	400 to 600	1.25	1.0	50
1.0	MURS120	G	Plastic SMD[2]	DO-214AA (SMB)	200	0.88	1.0	25
1.0	MURS140 and MURS160	G	Plastic SMD[2]	DO-214AA (SMB)	400 to 600	1.25	1.0	50
1.0	**U1B, U1C, and U1D**	**G**	**Plastic SMD[4]**	**DO-214AC (SMA)**	**100 to 200**	**0.92**	**1.0**	**15**
1.0	UF4001 to UF4007	G	Plastic Axial[2]	DO-204AL (DO-41)	50 to 1000	1.0 / 1.7	1.0	50 / 75
1.0	UG1A to UG1D	G	Plastic Axial[2]	DO-204AL (DO-41)	50 to 200	0.95	1.0	15
1.0	**UH1B, UH1C, and UH1D**	**G**	**Plastic SMD[4]**	**DO-214AC (SMA)**	**100 to 200**	**1.05**	**1.0**	**25**
1.0	**UH1PB, UH1PC, and UH1PD**	**G**	**Plastic SMD[4]**	**DO-220AA (SMP)**	**100 to 200**	**1.05**	**1.0**	**25**
1.0	US1A to US1M	G	Plastic SMD[2]	DO-214AC (SMA)	50 to 1000	1.0 / 1.7	1.0	50 / 75
1.5	BYG20D to BYG20J[6]	T → G	Plastic SMD[2]	DO-214AC (SMA)	200 to 600	1.30	1.0	75
1.5	BYG23M[6]	T → G	Plastic SMD[2]	DO-214AC (SMA)	1000	1.70	1.0	75
1.5	SUF15G and SUF15J	G	Plastic Axial[2]	GP20	400 and 600	1.80	1.5	35
2.0	BYG22A to BYG22D[6]	T → G	Plastic SMD[2]	DO-214AC (SMA)	50 to 200	1.10	2.0	25
2.0	ES2A to ES2D	G	Plastic SMD[2]	DO-214AA (SMB)	50 to 200	0.90	2.0	20
2.0	ES2F and ES2G	G	Plastic SMD[2]	DO-214AA (SMB)	300 to 400	1.10	2.0	35
2.0	ESH2B, ESH2C, and ESH2D	G	Plastic SMD[2]	DO-214AA (SMB)	100 to 200	0.93	2.0	25
2.0	**ESH2PB, ESH2PC, and ESH2PD**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 200**	**0.98**	**2.0**	**25**
2.0	**MURS240 and MURS260**	**G**	**Plastic SMD[2]**	**DO-214AA (SMB)**	**400 to 600**	**1.45**	**2.0**	**50**
2.0	SBYV27-50 to SBYV27-200	G	Plastic Axial[2]	DO-204AC (DO-15)	50 to 200	1.07	3.0	15
2.0	**U2B, U2C, and U2D**	**G**	**Plastic Axial[4]**	**DO-214AA (SMB)**	**100 to 200**	**0.90**	**2.0**	**20**
2.0	UG2A to UG2D	G	Plastic Axial[2]	DO-204AC (DO-15)	50 to 200	0.95	2.0	15
2.0	UG2F and UG2G	G	Plastic Axial[2]	DO-204AC (DO-15)	300 to 400	1.10	2.0	35
2.0	**UH2B, UH2C, and UH2D**	**G**	**Plastic Axial[4]**	**DO-214AA (SMB)**	**100 to 200**	**1.05**	**2.0**	**25**

Note:
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3. Dual center-tapped device (V_F limit @ I_F is per diode)
4. Oxide planar die
5. Source: G = formerly General Semiconductor
6. Avalanche energy 20 mJ

Ultrafast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F		t_{rr}
			Family[3]	Type		(V)	(A)	(ns)
2.0	**USB260**	**G**	**Plastic SMD[2]**	**DO-214AA (SMB)**	**600**	**1.60**	**2.0**	**30**
3.0	31GF4	G	Plastic Axial[2]	DO-201AD	400	1.25	3.0	30
3.0	31GF6	G	Plastic Axial[2]	DO-201AD	600	1.60	3.0	30
3.0	ES3A to ES3D	G	Plastic SMD[2]	DO-214AB (SMC)	50 to 200	0.90	3.0	20
3.0	ES3F and ES3G	G	Plastic SMD[2]	DO-214AB (SMC)	300 to 400	1.10	3.0	35
3.0	ESH3B, ESH3C, and ESH3D	G	Plastic SMD[2]	DO-214AB (SMC)	100 to 200	0.90	3.0	25
3.0	MURS320	G	Plastic SMD[2]	DO-214AB (SMC)	200	0.88	3.0	25
3.0	MURS340 and MURS360	G	Plastic SMD[2]	DO-214AB (SMC)	400 and 600	1.25 / 1.28	3.0 / 4.0	50
3.0	**MURS340S and MURS360S**	**G**	**Plastic Axial[2]**	**DO-214AA (SMB)**	**400 and 600**	**1.45**	**3.0**	**50**
3.0	SUF30G and SUF30J	G	Plastic Axial[2]	P600	400 and 600	1.8 / 2.0	3.0	35
3.0	**U3B, U3C, and U3D**	**G**	**Plastic SMD[4]**	**DO-214AB (SMC)**	**100 to 200**	**0.90**	**3.0**	**20**
3.0	UF5400 to UF5408	G	Plastic Axial[2]	DO-201AD	50 to 1000	1.0 / 1.7	3.0	50 / 75
3.0	**UH3B, UH3C, and UH3D**	**G**	**Plastic SMD[4]**	**DO-214AB (SMC)**	**100 to 200**	**1.05**	**3.0**	**25**
3.5	SBYV28-50 to SBYV28-200	G	Plastic Axial[2]	DO-201AD	50 to 200	1.10	3.5	20
4.0	MUR420	G	Plastic Axial[2]	DO-201AD	200	0.89	4.0	25
4.0	MUR440 and MUR460	G	Plastic Axial[2]	DO-201AD	400 to 600	1.28	4.0	50
4.0	**UH4PBC, UH4PCC, and UH4PDC**	**G**	**Plastic SMD[4]**	**TO-277A (SMPC)**	**100 to 200**	**1.05**	**2.0**	**25**
4.0	UG4A to UG4D	G	Plastic Axial[2]	DO-201AD	50 to 200	0.95	4.0	20
5.0	GUR5H60	G	Plastic Power Pack[2]	TO-220AC	600	1.80	5.0	30
5.0	GURB5H60	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	600	1.80	5.0	30
5.0	GURF5H60	G	Isolated Power Pack[2]	ITO-220AC	600	1.80	5.0	30
5.0	UG5HT and UG5JT	G	Plastic Power Pack[2]	TO-220AC	500 to 600	1.75	5.0	25
5.0	UGB5HT and UGB5JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	500 to 600	1.75	5.0	25
5.0	UGF5HT and UGF5JT	G	Isolated Power Pack[2]	ITO-220AC	500 to 600	1.75	5.0	25
6.0	FEP6AT to FEP6DT	G	Plastic Power Pack[2][3]	TO-220AB	50 to 200	0.98	3.0	35
6.0	FEPB6AT to FEPB6DT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	50 to 200	0.98	3.0	35
6.0	FEPF6AT to FEPF6DT	G	Isolated Power Pack[2][3]	ITO-220AB	50 to 200	0.98	3.0	35
6.0	**UH6PD**	**G**	**Plastic SMD[4]**	**TO-277A (SMPC)**	**200**	**1.05**	**6.0**	**25**
6.0	**UH6PJ**	**G**	**Plastic SMD[4]**	**TO-277A (SMPC)**	**600**	**3.0**	**6.0**	**25**
8.0	BYV29-300 and BYV29-400	G	Plastic Power Pack[2]	TO-220AC	300 to 400	1.25	8.0	35
8.0	BYV29B-300 and BYV29B-400	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	300 to 400	1.25	8.0	35
8.0	BYV29F-300 and BYV29F-400	G	Isolated Power Pack[2]	ITO-220AC	300 to 400	1.25	8.0	35
8.0	BYW29-50 to BYW29-200	G	Plastic Power Pack[2]	TO-220AC	50 to 200	1.30	20	25
8.0	BYWB29-50 to BYWB29-200	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 200	1.30	20	25
8.0	BYWF29-50 to BYWF29-200	G	Isolated Power Pack[2]	ITO-220AC	50 to 200	1.30	20	25

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Ultrafast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F		t_{rr}
			Family[3]	Type		(V)	(A)	(ns)
8.0	FES8AT to FES8JT	G	Plastic Power Pack[2]	TO-220AC	50 to 600	0.95 / 1.3 / 1.5	8.0	35 / 50
8.0	FESB8AT to FESB8JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 600	0.95 / 1.3 / 1.5	8.0	35 / 50
8.0	FESF8AT to FESF8JT	G	Isolated Power Pack[2]	ITO-220AC	50 to 600	0.95 / 1.3 / 1.5	8.0	35 / 50
8.0	**U8BT to U8DT**	**G**	**Plastic Power Pack[4]**	**TO-220AC**	**100 to 200**	**1.02**	**8.0**	**20**
8.0	**UF8BT to UF8DT**	**G**	**Isolated Power Pack[4]**	**ITO-220AC**	**100 to 200**	**1.02**	**8.0**	**20**
8.0	**UB8BT to UB8DT**	**G**	**Power Pack SMD[4]**	**TO-263AB (D^2PAK)**	**100 to 200**	**1.02**	**8.0**	**20**
8.0	GI1401 to GI1404	G	Plastic Power Pack[2]	TO-220AC	50 to 200	0.975	8.0	35
8.0	GIB1401 to GIB1404	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 200	0.975	8.0	35
8.0	UG8AT to UG8DT	G	Plastic Power Pack[2]	TO-220AC	50 to 200	1.00	8.0	20
8.0	UGB8AT to UGB8DT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 200	1.00	8.0	20
8.0	UGF8AT to UGF8DT	G	Isolated Power Pack[2]	ITO-220AC	50 to 200	1.00	8.0	20
8.0	UG8FT and UG8GT	G	Plastic Power Pack[2]	TO-220AC	300 to 400	1.25	8.0	35
8.0	UGB8FT and UGB8GT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	300 to 400	1.25	8.0	35
8.0	UGF8FT and UGF8GT	G	Isolated Power Pack[2]	ITO-220AC	300 to 400	1.25	8.0	35
8.0	UG8HT and UG8JT	G	Plastic Power Pack[2]	TO-220AC	500 to 600	1.75	8.0	25
8.0	UGB8HT and UGB8JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	500 to 600	1.75	8.0	25
8.0	UGF8HT and UGF8JT	G	Isolated Power Pack[2]	ITO-220AC	500 to 600	1.75	8.0	25
8.0	UG8HCT and UG8JCT	G	Plastic Power Pack[2][3]	TO-220AB	500 to 600	1.75	4.0	25
8.0	UGB8HCTand UGB8JCT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	500 to 600	1.75	4.0	25
8.0	UGF8HCT and UGF8JCT	G	Isolated Power Pack[2][3]	ITO-220AB	500 to 600	1.75	4.0	25
10	BYQ28E-100 to BYQ28E-200	G	Power Pack SMD[2][3]	TO-220AB	100 to 200	1.10	5.0	20
10	BYQ28EB-100 to BYQ28EB-200	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	100 to 200	1.10	5.0	20
10	BYQ28EF-100 to BYQ28EF-200	G	Isolated Power Pack[2][3]	ITO-220AB	100 to 200	1.10	5.0	20
10	BYT28-300 and BYT28-400	G	Plastic Power Pack[2][3]	TO-220AB	300 to 400	1.30	5.0	35
10	BYT28B-300 and BYT28B-400	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	300 to 400	1.30	5.0	35
10	BYT28F-300 and BYT28F-400	G	Isolated Power Pack[2][3]	ITO-220AB	300 to 400	1.30	5.0	35
10	UG10BCT to UG10DCT	G	Plastic Power Pack[2][3]	TO-220AB	100 to 200	1.10	5.0	20
10	UGB10BCT to UGB10DCT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	100 to 200	1.10	5.0	20
10	UGF10BCT to UGF10DCT	G	Isolated Power Pack[2][3]	ITO-220AB	100 to 200	1.10	5.0	20
10	UG10FCT and UG10GCT	G	Plastic Power Pack[2][3]	TO-220AB	300 to 400	1.30	5.0	35
10	UGB10FCT and UGB10GCT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	300 to 400	1.30	5.0	35
10	UGF10FCT and UGF10GCT	G	Isolated Power Pack[2][3]	ITO-220AB	300 to 400	1.30	5.0	35
10	**UH10FT**	**G**	**Plastic Power Pack[4]**	**TO-220AC**	**300**	**1.2**	**10**	**25**
10	**UHB10FT**	**G**	**Power Pack SMD[4]**	**TO-263AB (D^2PAK)**	**300**	**1.2**	**10**	**25**

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Ultrafast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F		t_{rr}
			Family[3]	Type		(V)	(A)	(ns)
10	**U10BCT to U10DCT**	**G**	**Plastic Power Pack**[3][4]	**TO-220AB**	**100 to 200**	**1.10**	**5.0**	**20**
10	**UB10BCT to UB10DCT**	**G**	**Power Pack SMD**[3][4]	**TO-263AB (D^2PAK)**	**100 to 200**	**1.10**	**5.0**	**20**
10	**UF10BCT to UF10DCT**	**G**	**Isolated Power Pack**[3][4]	**ITO-220AB**	**100 to 200**	**1.10**	**5.0**	**20**
12	UG12HT and UG12JT	G	Plastic Power Pack[2]	TO-220AC	500 to 600	1.75	12	30
12	UGB12HT and UGB12JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	500 to 600	1.75	12	30
12	UGF12HT and UGF12JT	G	Isolated Power Pack[2]	ITO-220AC	500 to 600	1.75	12	30
15	UG15HT and UG15JT	G	Plastic Power Pack[2]	TO-220AC	500 to 600	1.75	15	35
15	UGB15HT and UGB15JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	500 to 600	1.75	15	35
15	UGF15HT and UGF15JT	G	Isolated Power Pack[2]	ITO-220AC	500 to 600	1.75	15	35
16	FEP16AT to FEP16JT	G	Plastic Power Pack[2]	TO-220AB	50 to 600	0.95 / 1.30 / 1.50	8	35 / 50
16	FEPB16AT to FEPB16JT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	50 to 600	0.95 / 1.30 / 1.50	8	35 / 50
16	FEPF16AT to FEPF16JT	G	Isolated Power Pack [2][3]	ITO-220AB	50 to 600	0.95 / 1.30 / 1.50	8	35 / 50
16	FES16AT to FES16JT	G	Plastic Power Pack[2]	TO-220AC	50 to 600	0.975 / 1.30 / 1.50	16	35 / 50
16	FESB16AT to FESB16JT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 600	0.975 / 1.30 / 1.50	16	35 / 50
16	FESF16AT to FESF16JT	G	Isolated Power Pack[2]	ITO-220AC	50 to 600	0.975 / 1.30 / 1.50	16	35 / 50
16	GI2401 to GI2404	G	Plastic Power Pack[2][3]	TO-220AB	50 to 200	0.975	8.0	35
16	GIB2401 to GIB2404	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	50 to 200	0.975	8.0	35
16	**U16BCT to U16DCT**	**G**	**Plastic Power Pack**[3][4]	**TO-220AB**	**100 to 200**	**1.10**	**8.0**	**35**
16	**UB16BCT to UB16DCT**	**G**	**Power Pack SMD**[3][4]	**TO-263AB (D^2PAK)**	**100 to 200**	**1.10**	**8.0**	**35**
18	BYV32-50 to BYV32-200	G	Plastic Power Pack[2][3]	TO-220AB	50 to 200	1.15	20	25
18	BYVB32-50 to BYVB32-200	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	50 to 200	1.15	20	25
18	BYVF32-50 to BYVF32-200	G	Isolated Power Pack[2][3]	ITO-220AB	50 to 200	1.15	20	25
18	UG18ACT to UG18DCT	G	Plastic Power Pack[2][3]	TO-220AB	50 to 200	1.10	9.0	20
18	UGB18ACT to UGB18DCT	G	Power Pack SMD[2][3]	TO-263AB (D^2PAK)	50 to 200	1.10	9.0	20
18	UGF18ACT to UGF18DCT	G	Isolated Power Pack[2][3]	ITO-220AB	50 to 200	1.10	9.0	20
20	**U20BCT to U20DCT**	**G**	**Plastic Power Pack**[3][4]	**TO-220AB**	**100 to 200**	**1.00**	**10**	**35**
20	**UB20BCT to UB20DCT**	**G**	**Power Pack SMD**[3][4]	**TO-263AB (D^2PAK)**	**100 to 200**	**1.00**	**10**	**35**
20	**UH20FCT**	**G**	**Plastic Power Pack**[3][4]	**TO-220AB**	**300**	**1.2**	**10**	**25**
20	**UHB20FCT**	**G**	**Power Pack SMD**[3][4]	**TO-263AB (D^2PAK)**	**300**	**1.2**	**10**	**25**
20	**UHF20FCT**	**G**	**Isolated Power Pack**[3][4]	**ITO-220AB**	**300**	**1.2**	**10**	**25**
30	FEP30AP to FEP30JP	G	Plastic Power Pack[2][3]	TO-247AD	50 to 600	0.95 / 1.3 / 1.5	15	35 / 50

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4. Oxide planar die
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6. Avalanche energy 20 mJ

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Ultrafast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F @ I_F		t_{rr}
			Family[3]	Type		(V)	(A)	(ns)
30	**U30BCT to U30DCT**	**G**	**Plastic Power Pack[3][4]**	**TO-220AB**	**100 to 200**	**1.05**	**15**	**25**
30	**UB30BCT to UB30DCT**	**G**	**Power Pack SMD[3][4]**	**TO-263AB (D^2PAK)**	**100 to 200**	**1.05**	**15**	**25**
30	UG30APT to UG30DPT	G	Plastic Power Pack[2][3]	TO-247AD	50 to 200	1.00	15	25

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Fred Pt™ (Fast Recovery Epitaxial Diodes)

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
150	150EBU02	I	Power Plastic Through Hole[1]	POWERTAB™	200	1.13	150	34	*150 A, 200 A/us, 160 V*	300
150	150EBU04	I	Power Plastic Through Hole[1]	POWERTAB™	400	1.3	150	93	*150 A, 200 A/us, 200 V*	1740
80	80EBU02	I	Power Plastic Through Hole[2]	POWERTAB™	200	1.13	80	32	*80 A, 200 A/us, 160 V*	240
80	80EBU04	I	Power Plastic Through Hole[2]	POWERTAB™	400	1.3	80	87	*80 A, 200 A/us, 200 V*	1300
70	70CRU02PBF[6]	I	Power Plastic Through Hole[1]	TO-218	200	1.09	35	26	*35 A, 200 A/us, 100 V*	202
70	70CRU04PBF[6]	I	Power Plastic Through Hole[1]	TO-218	400	1.32	35	72	*35 A, 200 A/us, 200 V*	1080
60	60APU02PBF	I	Power Plastic Through Hole[2]	TO-247AC	200	1.08	60	28	*60 A, 200 A/us, 160 V*	220
60	60APU04PBF	I	Power Plastic Through Hole[2]	TO-247AC	400	1.25	60	85	*60 A, 200 A/us, 200 V*	1120
60	60APU06PBF	I	Power Plastic Through Hole[2]	TO-247AC	600	1.68	60	81	*60 A, 200 A/us, 200 V*	1394
60	**60CPH03PBF**	**I**	**Power Plastic Through Hole[1]**	**TO-247AC**	**300**	**1.25**	**30**	**39**	*30 A, 200 A/us, 200 V*	**214**
60	**60CPU02-F**	**I**	**Power Plastic Through Hole[1]**	**TO-247AC**	**200**	**1.1**	**30**	**30**	*30 A, 200 A/us, 160 V*	**160**
60	**60CPU06-F**	**I**	**Power Plastic Through Hole[1]**	**TO-247AC**	**600**	**1.65**	**30**	**42**	*30 A, 200 A/us, 200 V*	**630**
60	60EPU02PBF	I	Power Plastic Through Hole[2]	TO-247AC (modified)	200	1.08	60	28	*60 A, 200 A/us, 160 V*	220
60	60EPU04PBF	I	Power Plastic Through Hole[2]	TO-247AC (modified)	400	1.25	60	85	*60 A, 200 A/us, 200 V*	1120
60	60EPU06PBF	I	Power Plastic Through Hole[2]	TO-247AC (modified)	600	1.68	60	81	*60 A, 200 A/us, 200 V*	1394
60	**VS-60CPU04-F3**	**I**	**Power Plastic Through Hole[1]**	**TO-247AC**	**400**	**1.30**	**30**	**65**	*30 A, 200 A/us, 200 V*	**874**
30	30CPH03PBF	I	Power Plastic Through Hole[1]	TO-247AC	300	1.25	15	33	*15 A, 200 A/us, 200 V*	160
30	30CPU04PBF	I	Power Plastic Through Hole[1]	TO-247AC	400	1.25	15	46	*15 A, 200 A/us, 200 V*	345
30	30CTH02-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	200	1.05	15	26	*15 A, 200 A/us, 160 V*	37 at R.T.
30	30CTH02FPPBF	I	Isolated Power Plastic[1]	TO-220FPAB	200	1.05	15	26	*15 A, 200 A/us, 160 V*	37 at R.T.
30	30CTH02PBF	I	Power Plastic Through Hole[1]	TO-220AB	200	1.05	15	26	*15 A, 200 A/us, 160 V*	37 at R.T.

Note:
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3. x designates tube or tape&reel version on SMD products
   none = tube
   TR = tape and reel centered (for DPAK only)
   TRL = tape and reel left oriented
   TRR = tape and reel right oriented
4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
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Fred Pt™ (Fast Recovery Epitaxial Diodes), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
30	30CTH02SxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	200	1.05	15	26	*15 A, 200 A/us, 160 V*	37 at R.T.
30	30CTH03PBF	I	Power Plastic Through Hole[1]	TO-220AB	300	1.25	15	33	*15 A, 200 A/us, 200 V*	160
30	30EPH03PBF	I	Power Plastic Through Hole[2]	TO-247AC (modified)	300	1.25	30	38	*30 A, 200 A/us, 200 V*	190
30	30EPH06PBF	I	Power Plastic Through Hole[2]	TO-247AC (modified)	600	2.6	30	31	*30 A, 200 A/us, 200 V*	345
30	30ETH06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	2.6	30	31	*30 A, 200 A/us, 200 V*	345
30	30ETH06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	2.6	30	31	*30 A, 200 A/us, 200 V*	345
30	30ETH06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	2.6	30	31	*30 A, 200 A/us, 200 V*	345
30	MUR3020WTPBF	I	Power Plastic Through Hole[1]	TO-247AC	200	1.05	15	22	*15 A, 200 A/us, 160 V*	19 at R.T.
20	20CTH03-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	300	1.25	10	31	*10 A, 200 A/us, 200 V*	120
20	20CTH03FPPBF	I	Isolated Power Plastic[1]	TO-220FPAB	300	1.25	10	31	*10 A, 200 A/us, 200 V*	120
20	20CTH03PBF	I	Power Plastic Through Hole[1]	TO-220AB	300	1.25	10	31	*10 A, 200 A/us, 200 V*	120
20	20CTH03SPBF[6]	I	Power Plastic SMD[1]	TO-263AB (D^2PAK)	300	1.25	10	31	*10 A, 200 A/us, 200 V*	120
20	MUR2020CTPBF	I	Power Plastic Through Hole[1]	TO-220AB	200	1.15	16	21	*10 A, 200 A/us, 160 V*	25 at R.T.
20	MURB2020CT-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	200	1.15	16	21	*10 A, 200 A/us, 160 V*	25 at R.T.
20	MURB2020CTxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	200	1.15	16	21	*10 A, 200 A/us, 160 V*	25 at R.T.
16	16CTU04-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
16	16CTU04PBF	I	Power Plastic Through Hole[1]	TO-220AB	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
16	16CTU04SxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
16	MUR1620CTPBF	I	Power Plastic Through Hole[1]	TO-220AB	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.
16	MURB1620CT-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.
16	MURB1620CTxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.

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Fred Pt™ (Fast Recovery Epitaxial Diodes), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
15	15ETH03-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	300	1.25	15	32	*15 A, 200 A/us, 200 V*	137
15	15ETH03PBF	I	Power Plastic Through Hole[2]	TO-220AC	300	1.25	15	32	*15 A, 200 A/us, 200 V*	137
15	15ETH03SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	300	1.25	15	32	*15 A, 200 A/us, 200 V*	137
15	15ETH06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	2.2	15	29	*15 A, 200 A/us, 390 V*	300
15	15ETH06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	2.2	15	29	*15 A, 200 A/us, 390 V*	300
15	15ETH06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	2.2	15	29	*15 A, 200 A/us, 390 V*	300
15	15ETH06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	2.2	15	29	*15 A, 200 A/us, 390 V*	300
15	15ETL06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	1.05	15	220	*15 A, 200 A/us, 390 V*	4300
15	15ETL06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	1.05	15	220	*15 A, 200 A/us, 390 V*	4300
15	15ETL06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.05	15	220	*15 A, 200 A/us, 390 V*	4300
15	15ETL06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	1.05	15	220	*15 A, 200 A/us, 390 V*	4300
15	15ETX06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	3.2	15	22	*15 A, 200 A/us, 390 V*	150
15	15ETX06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	3.2	15	22	*15 A, 200 A/us, 390 V*	150
15	15ETX06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	3.2	15	22	*15 A, 200 A/us, 390 V*	150
15	15ETX06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	3.2	15	22	*15 A, 200 A/us, 390 V*	150
15	**VS-15S2TH06FP[6]**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAC**	**600**	**2.4**	**15**	**20**	*15 A, 200 A/us, 390 V*	**140**
15	**VS-15STH06FP[6]**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAB**	**600**	**2.4**	**15**	**20**	*15 A, 200 A/us, 390 V*	**140**
15	MUR1520PBF	I	Power Plastic Through Hole[2]	TO-220AC	200	1.05	15	22	*15 A, 200 A/us, 160 V*	90
15	MURB1520-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	200	1.05	15	22	*15 A, 200 A/us, 160 V*	90
15	MURB1520xPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	200	1.05	15	22	*15 A, 200 A/us, 160 V*	90
15	**VS-15AWL06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.05**	**15**	**250**	*15 A, 200 A/us, 390 V*	**2600 R.T.**
15	**VS-15EWH06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**2.10**	**15**	**31**	*15 A, 200 A/us, 390 V*	**60 R.T.**

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Fred Pt™ (Fast Recovery Epitaxial Diodes), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
15	**VS-15EWL06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.05**	**15**	**250**	*15 A, 200 A/us, 390 V*	**2600 R.T.**
15	**VS-15EWX06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**3.20**	**15**	**22**	*15 A, 200 A/us, 390 V*	**29 R.T.**
12	**VS-12EWH06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**2.50**	**12**	**26**	*12 A, 200 A/us, 390 V*	**48 R.T.**
10	MUR1020CTPBF	I	Power Plastic Through Hole[1]	TO-220AB	200	1.25	10	24	*5 A, 200 A/us, 160 V*	76
10	MURB1020CT-1PBF[6]	I	Power Plastic Through Hole[1]	TO-262 (I^2PAK)	200	1.25	10	24	*5 A, 200 A/us, 160 V*	76
10	MURB1020CTxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	200	1.25	10	24	*5 A, 200 A/us, 160 V*	76
10	**VS-10CWH02FN-E3**	**I**	**Power Plastic SMD[1][3]**	**TO-252 (DPAK)**	**200**	**0.98**	**5**	**21**	*5 A, 200 A/us, 160 V*	**20 R.T.**
8	8ETH03-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	300	1.25	8	27	*8 A, 200 A/us, 200 V*	106
8	8ETH03PBF	I	Power Plastic Through Hole[2]	TO-220AC	300	1.25	8	27	*8 A, 200 A/us, 200 V*	106
8	8ETH03SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	300	1.25	8	27	*8 A, 200 A/us, 200 V*	106
8	8ETH06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	2.4	8	25	*8 A, 200 A/us, 400 V*	120
8	8ETH06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	2.4	8	25	*8 A, 200 A/us, 400 V*	120
8	8ETH06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	2.4	8	25	*8 A, 200 A/us, 400 V*	120
8	8ETH06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	2.4	8	25	*8 A, 200 A/us, 400 V*	120
8	8ETL06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	1.05	8	170	*8 A, 200 A/us, 400 V*	2200
8	8ETL06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	1.05	8	170	*8 A, 200 A/us, 400 V*	2200
8	8ETL06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.05	8	170	*8 A, 200 A/us, 400 V*	2200
8	8ETL06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	1.05	8	170	*8 A, 200 A/us, 400 V*	2200
8	8ETU04-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
8	8ETU04PBF	I	Power Plastic Through Hole[2]	TO-220AC	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
8	8ETU04SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	400	1.3	8	43	*8 A, 200 A/us, 200 V*	210
8	8ETX06-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	3	8	17	*8 A, 200 A/us, 400 V*	88

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Fred Pt™ (Fast Recovery Epitaxial Diodes), continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
8	8ETX06FPPBF	I	Isolated Power Plastic[2]	TO-220FPAC	600	3	8	17	*8 A, 200 A/us, 400 V*	88
8	8ETX06PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	3	8	17	*8 A, 200 A/us, 400 V*	88
8	8ETX06SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	3	8	17	*8 A, 200 A/us, 400 V*	88
8	**VS-8S2TH06FP[6]**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAC**	**600**	**2.4**	**8**	**19**	*8 A, 200 A/us, 390 V*	**84**
8	**VS-8S2TH06I-M[6]**	**I**	**Power Plastic Through Hole[2]**	**ITO-220AC**	**600**	**3.1**	**8**	**11**	*8 A, 200 A/us, 390 V*	**35**
8	**VS-8STH06FP[6]**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAB**	**600**	**2.4**	**8**	**19**	*8 A, 200 A/us, 390 V*	**84**
8	MUR820PBF	I	Power Plastic Through Hole[2]	TO-220AC	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.
8	MURB820-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.
8	MURB820xPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	200	0.975	8	20	*8 A, 200 A/us, 160 V*	23 at R.T.
8	**VS-8EWH02FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**200**	**0.97**	**8**	**24**	*8 A, 200A/us, 160V*	**27 R.T.**
8	**VS-8CWH02FNx-E3**	**I**	**Power Plastic SMD[1][3]**	**TO-252 (DPAK)**	**200**	**0.95**	**4**	**20**	*4 A, 200 A/us, 160 V*	**20 R.T.**
8	**VS-8E2TX06-E**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**3.20**	**8**	**16**	*8 A, 200 A/us, 390 V*	**62**
8	**VS-8E2TH06-E**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**2.50**	**8**	**22**	*8 A, 200 A/us, 390 V*	**120**
8	**VS-8E2TL06-E**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**1.07**	**8**	**200**	*8 A, 200 A/us, 390 V*	**2400**
8	**VS-8E2TX06-M[6]**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**3.20**	**8**	**16**	*8 A, 200 A/us, 390 V*	**62**
8	**VS-8E2TH06-M[6]**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**2.50**	**8**	**22**	*8 A, 200 A/us, 390 V*	**120**
8	**VS-8E2TL06-M[6]**	**I**	**Power Plastic Through Hole[2]**	**TO-220AC**	**600**	**1.07**	**8**	**200**	*8 A, 200 A/us, 390 V*	**2400**
8	**VS-8E2TX06FP-E**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAC**	**600**	**3.20**	**8**	**16**	*8 A, 200 A/us, 390 V*	**62**
8	**VS-8E2TH06FP-E**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAC**	**600**	**2.50**	**8**	**22**	*8 A, 200 A/us, 390 V*	**120**
8	**VS-8E2TL06FP-E**	**I**	**Isolated Power Plastic[2]**	**TO-220FPAC**	**600**	**1.07**	**8**	**200**	*8 A, 200 A/us, 390 V*	**2400**
8	**VS-8EWH06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**2.40**	**8**	**25**	*8 A, 200 A/us, 390 V*	**25 R.T.**
8	**VS-8EWL06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.05**	**8**	**170**	*8 A, 200 A/us, 390 V*	**1300 R.T.**

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$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at 25 °C	Typ Q_{rr} at 125 °C	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
8	**VS-8EWX06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**3.40**	**8**	**17**	*8 A, 200 A/us, 390 V*	**20 R.T.**
6	**6CWH02FNxPBF**	**I**	**Power Plastic SMD[1][3]**	**TO-252 (DPAK)**	**200**	**1.00**	**3**	**19**	*3 A, 200 A/us, 160 V*	**60 R.T.**
6	MURD620CTxPBF	I	Power Plastic SMD[1][3]	TO-252 (DPAK)	200	1.2	6	19	*3 A, 200 A/us, 160 V*	60
6	**VS-6EWH06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**2.10**	**6**	**21**	*6 A, 200 A/us, 390 V*	**33 R.T.**
6	**VS-6EWL06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.35**	**6**	**173**	*6 A, 200 A/us, 390 V*	**988 R.T.**
6	**VS-6EWX06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**3.10**	**6**	**16**	*6 A, 200 A/us, 390 V*	**19 R.T.**
5	**VS-5EWH06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.85**	**5**	**21**	*5 A, 200 A/us, 390 V*	**33 R.T.**
5	**VS-5EWL06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**1.25**	**5**	**154**	*5 A, 200 A/us, 390 V*	**826 R.T.**
5	**VS-5EWX06FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**600**	**2.90**	**5**	**16**	*5 A, 200 A/us, 390 V*	**19 R.T.**
4	**VS-4EWH02FNx-E3**	**I**	**Power Plastic SMD[2][3]**	**TO-252 (DPAK)**	**200**	**0.95**	**4**	**20**	*4 A, 200 A/us, 160 V*	**20 R.T.**

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$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at see setup	Typ Q_{rr} at see setup	
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
50	HFA50PA60CPBF	I	Power Plastic Through Hole[1]	TO-247AC	600	2	50	50	*25 A, 200 A/us, 200 V*	420
32	HFA32PA120CPBF	I	Power Plastic Through Hole[1]	TO-247AC	1200	3.93	32	90	*16 A, 200 A/us, 200 V*	680
30	HFA30PA60CPBF	I	Power Plastic Through Hole[1]	TO-247AC	600	2	30	42	*15 A, 200 A/us, 200 V*	220
30	HFA30PB120PBF	I	Power Plastic Through Hole[2]	TO-247AC	1200	4.1	30	110	*30 A, 200 A/us, 200 V*	1540
30	HFA30TA60CPBF	I	Power Plastic Through Hole[1]	TO-220AB	600	2	30	42	*15 A, 200 A/us, 200 V*	220
30	HFA30TA60CSxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	600	2	30	42	*15 A, 200 A/us, 200 V*	220
25	HFA25PB60PBF	I	Power Plastic Through Hole[2]	TO-247AC	600	1.7	25	50	*25 A, 200 A/us, 200 V*	420
25	HFA25TB60PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.7	25	50	*25 A, 200 A/us, 200 V*	420
25	HFA25TB60SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	1.7	25	50	*25 A, 200 A/us, 200 V*	420
16	HFA16PA120CPBF	I	Power Plastic Through Hole[1]	TO-247AC	1200	4.3	16	63	*8 A, 200 A/us, 200 V*	335
16	HFA16PA60CPBF	I	Power Plastic Through Hole[1]	TO-247AC	600	2.1	16	37	*8 A, 200 A/us, 200 V*	124
16	HFA16PB120PBF	I	Power Plastic Through Hole[2]	TO-247AC	1200	3	16	90	*16 A, 200 A/us, 200 V*	680
16	HFA16TA60CPBF	I	Power Plastic Through Hole[1]	TO-220AB	600	2.1	16	37	*8 A, 200 A/us, 200 V*	124
16	HFA16TA60CSxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	600	2.1	16	37	*8 A, 200 A/us, 200 V*	124
16	HFA16TB120PBF	I	Power Plastic Through Hole[2]	TO-220AC	1200	3	16	90	*16 A, 200 A/us, 200 V*	680
16	HFA16TB120SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	1200	3	16	90	*16 A, 200 A/us, 200 V*	680
15	HFA15PB60PBF	I	Power Plastic Through Hole[2]	TO-247AC	600	1.7	15	42	*15 A, 200 A/us, 200 V*	241
15	HFA15TB60-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	1.7	15	42	*15 A, 200 A/us, 200 V*	241
15	HFA15TB60PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.7	15	42	*15 A, 200 A/us, 200 V*	241
15	HFA15TB60SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	1.7	15	50	*15 A, 200 A/us, 200 V*	241

Note:
1. Dual center-tapped device (V_F limit @ I_F is per diode)
2. Singled die device
3. x designates tube or tape&reel version on SMD products
   none = tube
   TR = tape and reel centered (for DPAK only)
   TRL = tape and reel left oriented
   TRR = tape and reel right oriented
4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free

Hexfred®, continued

$I_{F(AV)}$ (A)	Device[5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at see setup		Typ Q_{rr} at see setup
			Family	Type		(V)	(A)	(ns)	*setup (I_F, di_F/dt, V_R)*	(nC)
12	HFA12PA120CPBF	I	Power Plastic Through Hole[1]	TO-247AC	1200	3.9	12	53	*6 A, 200 A/us, 200 V*	233
8	HFA08PB120PBF	I	Power Plastic Through Hole[2]	TO-247AC	1200	3.3	8	63	*8 A, 200 A/us, 200 V*	335
8	HFA08PB60PBF	I	Power Plastic Through Hole[2]	TO-247AC	600	1.7	8	37	*8 A, 200 A/us, 200 V*	124
8	HFA08SD60SxPBF	I	Power Plastic SMD[2][3]	TO-252 (DPAK)	600	1.7	8	37	*8 A, 200 A/us, 200 V*	124
8	HFA08TA60CPBF	I	Power Plastic Through Hole[1]	TO-220AB	600	2.2	8	28	*4 A, 200 A/us, 200 V*	70
8	HFA08TA60CSxPBF[6]	I	Power Plastic SMD[1][3]	TO-263AB (D^2PAK)	600	2.2	8	28	*4 A, 200 A/us, 200 V*	70
8	HFA08TB120PBF	I	Power Plastic Through Hole[2]	TO-220AC	1200	3.3	8	63	*8 A, 200 A/us, 200 V*	335
8	HFA08TB120SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	1200	3.3	8	63	*8 A, 200 A/us, 200 V*	335
8	HFA08TB60PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.7	8	37	*8 A, 200 A/us, 200 V*	124
8	HFA08TB60-1PBF[6]	I	Power Plastic Through Hole[2]	TO-262 (I^2PAK)	600	1.7	8	37	*8 A, 200 A/us, 200 V*	124
8	HFA08TB60SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	600	1.7	8	37	*8 A, 200 A/us, 200 V*	124
6	HFA06PB120PBF	I	Power Plastic Through Hole[2]	TO-247AC	1200	3	6	53	*6 A, 200 A/us, 200 V*	233
6	HFA06TB120PBF	I	Power Plastic Through Hole[2]	TO-220AC	1200	3	6	53	*6 A, 200 A/us, 200 V*	233
6	HFA06TB120SxPBF[6]	I	Power Plastic SMD[2][3]	TO-263AB (D^2PAK)	1200	3	6	53	*6 A, 200 A/us, 200 V*	233
4	HFA04SD60SxPBF	I	Power Plastic SMD[2][3]	TO-252 (DPAK)	600	1.8	4	28	*4 A, 200 A/us, 200 V*	70
4	HFA04TB60PBF	I	Power Plastic Through Hole[2]	TO-220AC	600	1.8	4	28	*4 A, 200 A/us, 200 V*	70

Note:
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Fast Recovery Rectifiers are used for applications requiring reverse recovery times in the range of 100 ns to 750 ns. Typical uses are low-frequency SMPS, motor controllers, and electronic ballasts. These products are offered in axial, surfacetomount, and power packages.

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		t_{rr} (ns)
			Family	Type		(V)	(A)	
0.5	GHR16	G	Plastic Axial	R-1 (Pho-flash diode)	1600	1.5	0.5	300
0.5	RGL34A to RGL34K	G	SUPERECTIFIER®SMD	DO-213AA (MiniMELF)	50 to 600	1.3	0.5	150 to 250
0.5	RGP02-12E to RGP02-20E	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	1200 to 2000	1.8	0.1	300
1.0	1N4933 to 1N4937	G	Plastic Axial	DO-204AL (DO-41)	50 to 600	1.2	1	200
1.0	1N4933GP to 1N4937GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 600	1.2	1	200
1.0	1N4942GP to 1N4948GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	200 to 1000	1.3	1	150 to 500
1.0	1N5615GP to 1N5623GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	200 to 1000	1.2	1	150 to 500
1.0	BA157 to BA159	G	Plastic Axial	DO-204AL (DO-41)	400 to 1000	1.3	1	150 to 500
1.0	BA157GP to BA159GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	400 to 1000	1.3	1	150 to 500
1.0	BYD33DGP to BYM33DGP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	200 to 1000	1.3	1	150 to 300
1.0	BYM11-50 to BYM11-1000	G	SUPERECTIFIER®SMD	DO-213AB (MELF)	50 to 1000	1.3	1	150 to 500
1.0	GI810 to GI818	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	50 to 1000	1.2	1	750
1.0	RGF1A to RGF1M	G	SUPERECTIFIER®SMD	DO-214BA (GF1)	50 to 1000	1.3	1	150 to 500
1.0	RGL41A to RGL41M	G	SUPERECTIFIER®SMD	DO-213AB (MELF)	50 to 1000	1.3	1	150 to 500
1.0	RGP10A to RGP10M	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 1000	1.3	1	150 to 500
1.0	RGP10AE to RGP10ME	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 1000	1.3	1	150 to 500
1.0	RMPG06A to RMPG06K	G	Plastic Axial[2]	MPG06	50 to 800	1.3	1	150 to 250
1.0	RS1A to RS1K	G	Plastic SMD[2]	DO-214AC (SMA)	50 to 800	1.3	1	150 to 500
1.0	**RS1PB to RS1PJ**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 600**	**1.3**	**1**	**150 to 250**
1.0	SRP100A to SRP100K	G	Plastic Axial	DO-204AL (DO-41)	50 to 800	1.3	1	100 to 200
1.5	BYG21K and BYG21M[4]	G	Plastic SMD[2]	DO-214AC (SMA)	800 to 1000	1.5 / 1.6	1 / 1.5	120

Note:
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3. Source: G = formerly General Semiconductor
4. Avalanche energy 20 mJ

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Fast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		t_{rr} (ns)
			Family	Type		(V)	(A)	
1.5	BYG24D to BYG24J[4]	G	Plastic SMD[2]	DO-214AC (SMA)	200 to 600	1.15 / 1.25	1 / 1.5	140
1.5	RGP15A to RGP15M	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	50 to 1000	1.3	1.5	150 to 500
1.5	RS2A to RS2K	G	Plastic SMD[2]	DO-214AA (SMB)	50 to 800	1.3	1.5	150 to 500
2.0	BY296P to BY299P	G	Plastic Axial	DO-201AD	100 to 800	1.3	3	500
2.0	RGP20A to RGP20J	G	SUPERECTIFIER®Axial	GP20	50 to 600	1.3	2	150 to 500
2.5	RGP25A to RGP25M	G	SUPERECTIFIER®Axial	DO-201AD	50 to 1000	1.3	2.5	150 to 500
3.0	BY396P to BY399P	G	Plastic Axial	DO-201AD	100 to 800	1.25	3	500
3.0	GI850 to GI856	G	Plastic Axial	DO-201AD	50 to 600	1.25	3	200
3.0	GI910 to GI917	G	Plastic Axial	DO-201AD	50 to 800	1.25	3	750
3.0	RGP30A to RGP30M	G	SUPERECTIFIER®Axial	DO-201AD	50 to 1000	1.3	3	150 to 500
3.0	RS3A to RS3K	G	Plastic SMD[2]	DO-214AB (SMC)	50 to 800	1.3	2.5	150 to 500
3.0	SRP300A to SRP300K	G	Plastic Axial	DO-201AD	50 to 800	1.3	3	100 to 200
5.0	BY500-100 to BY500-800	G	Plastic Axial	DO-201AD	100 to 800	1.35	5	200
5.0	GI820 to GI828	G	Plastic Axial	P600	50 to 800	1.1	5	200
6.0	SRP600A to SRP600K	G	Plastic Axial	P600	50 to 800	1.3	6	100 to 200
6.5	BYS459-1500	G	Plastic Power Pack[2]	TO-220AC	1500	1.3	6.5	350
6.5	BYS459B-1500	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	1500	1.3	6.5	350
6.5	BYS459F-1500	G	Isolated Power Pack[2]	ITO-220AC	1500	1.3	6.5	350
8.0	BY229-200 to BY229-800	G	Plastic Power Pack[2]	TO-220AC	200 to 800	1.85	20	145
8.0	BY229X-200 to BY229X-800	G	Isolated Power Pack[2]	ITO-220AC	200 to 800	1.85	20	145
8.0	BY229B-200 to BY229B-800	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	200 to 800	1.85	20	145
10	BYS459-1500S	G	Plastic Power Pack[2]	TO-220AC	1500	1.35	6.5	220
10	BYS459B-1500S	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	1500	1.35	6.5	220
10	BYS459F-1500S	G	Isolated Power Pack[2]	ITO-220AC	1500	1.35	6.5	220
10	DTV32	G	Plastic Power Pack[2]	TO-220AC	1500	1.5	6	175
10	DTV32B	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	1500	1.5	6	175
10	DTV32F	G	Isolated Power Pack[2]	ITO-220AC	1500	1.5	6	175
10	DTV56	G	Plastic Power Pack[2]	TO-220AC	1500	1.8	6	135

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4. Avalanche energy 20 mJ

Fast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		t_{rr} (ns)
			Family	Type		(V)	(A)	
10	DTV56B	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	1500	1.8	6	135
10	DTV56F	G	Isolated Power Pack[2]	ITO-220AC	1500	1.8	6	135

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4. Avalanche energy 20 mJ

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Fast Soft Recovery Rectifiers

$I_{F(AV)}$ (A)	Device[1]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at *see setup*	Typ Q_{rr} at *see setup*
			Family	Type		(V)	(A)	(ns)	*setup (i_F di_F/dt)* (μC)
8	8EWF02SxPBF to 8EWF06SxPBF	I	Power Plastic SMD[2][3]	TO-252 (DPAK)	200 to 600	1.2	8	140	*8 A, 25 A/us* 0.25
8	8EWF10SxPBF to 8EWF12SxPBF	I	Power Plastic SMD[2][3]	TO-252 (DPAK)	1000 to 1200	1.3	8	270	*8 A, 25 A/us* 1
10	10ETF02SxPBF to 10ETF06SxPBF	I	Power Plastic SMD[2][3][6]	TO-263AB (D^2PAK)	200 to 600	1.2	10	145	*10 A, 25 A/us* 0.32
10	10ETF10SxPBF and 10ETF12SxPBF	I	Power Plastic SMD[2][3][6]	TO-263AB (D^2PAK)	1000 to 1200	1.33	10	310	*10 A, 25 A/us* 1.05
10	10ETF02FPPBF and 10ETF06FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	200 to 600	1.2	10	145	*10 A, 25 A/us* 0.32
10	10ETF10FPPBF and 10ETF12FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	1000 to 1200	1.33	10	310	*10 A, 25 A/us* 1.05
10	10ETF02PBF and 10ETF06PBF	I	Power Plastic Through Hole[2]	TO-220AC	200 to 600	1.2	10	145	*10 A, 25 A/us* 0.32
10	10ETF10PBF and 10ETF12PBF	I	Power Plastic Through Hole[2]	TO-220AC	1000 to 1200	1.33	10	310	*10 A, 25 A/us* 1.05
20	20ETF02FPPBF to 20ETF06FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	200 to 600	1.3	20	160	*20 A, 100 A/us* 1.25
20	20ETF10FPPBF to 20ETF12FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	1000 to 1200	1.31	20	400	*20 A, 25 A/us* 1.7
20	20ETF02PBF to 20ETF06PBF	I	Power Plastic Through Hole[2]	TO-220AC	200 to 600	1.3	20	160	*20 A, 100 A/us* 1.25
20	20ETF08PBF to 20ETF12PBF	I	Power Plastic Through Hole[2]	TO-220AC	800 to 1200	1.31	20	400	*20 A, 25 A/us* 1.7
20	20ETF02SxPBF to 20ETF06SxPBF	I	Power Plastic SMD[2][3][6]	TO-263AB (D^2PAK)	200 to 600	1.3	20	160	*20 A, 100 A/us* 1.25
20	20ETF08SxPBF to 20ETF12SxPBF	I	Power Plastic SMD[2][3][6]	TO-263AB (D^2PAK)	800 to 1200	1.31	20	400	*20 A, 25 A/us* 1.7
30	30EPF02PBF to 30EPF06EPF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	200 to 600	1.41	30	160	*20 A, 100 A/us* 1.25
30	30CPF02PBF to 30CPF06EPF	I	Power Plastic Through Hole[2]	TO-247AC	200 to 600	1.41	30	160	*20 A, 100 A/us* 1.25
30	30EPF10PBF and 30EPF12EPF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1000 to 1200	1.41	30	450	*30 A, 25 A/us* 2.16
30	30CPF10PBF and 30CPF12EPF	I	Power Plastic Through Hole[2]	TO-247AC	1000 to 1200	1.41	30	450	*30 A, 25 A/us* 2.16
40	40EPF02PBF to 40EPF06EPF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	200 to 600	1.25	40	180	*40 A, 25 A/us* 0.5
40	40EPF10PBF and 40EPF12EPF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1000 to 1200	1.4	40	450	*10 A, 25 A/us* 1.8

Note:
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   TRL = tape and reel left oriented
   TRR = tape and reel right oriented
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Fast Soft Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F		Typ t_{rr} at *see setup*	Typ Q_{rr} at *see setup*	
			Family	Type		(V)	(A)	(ns)	*setup (i_F di_F/dt)*	(µC)
60	60EPF02PBF to 60EPF06PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	200 to 600	1.3	60	180	*60 A, 25 A/us*	0.5
60	60CPF02PBF to 60CPF06PBF	I	Power Plastic Through Hole[2]	TO-247AC	200 to 600	1.3	60	180	*60 A, 25 A/us*	0.5
60	60EPF10PBF and 60EPF12PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1000 to 1200	1.4	60	480	*60 A, 25 A/us*	2.7
60	60CPF10PBF and 60CPF12PBF	I	Power Plastic Through Hole[2]	TO-247AC	1000 to 1200	1.4	60	480	*60 A, 25 A/us*	2.7
80	80EPF02PBF to 80EPF06PBF	I	Power Plastic Through Hole[2]	TO-247AC	200 to 600	1.25	80	190	*40 A, 25 A/us*	0.5
80	80EPF10PBF and 80EPF12PBF	I	Power Plastic Through Hole[2]	TO-247AC	1000 to 1200	1.35	80	480	*80 A, 25 A/us*	2.1
85	85EPF12		Power Plastic Through Hole[2]	POWERTABTM	1200	1.36	85	480	*85 A, 25 A/us*	2.1

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Standard Rectifiers are for low-frequency general purpose use in consumer applications. Typical reverse recovery times are approximately 2 µs. These products are offered with forward current ratings of 0.25 A to 8 A and reverse voltages as high as 4000 V. They are available in plastic, glass, and Superectifier® constructions.

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F	
			Family	Type		(V)	(A)
0.25	GI250-1 to GI250-4	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	1000 to 4000	3.5	0.25
0.25	GP02-20 to GP02-40	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	2000 to 4000	3.0	1.0
0.5	GL34A to GL34J	G	SUPERECTIFIER®SMD	DO-213AA (MiniMELF)	50 to 600	1.2 / 1.3	0.5
0.8	GP08A to GP08J	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 600	1.3	0.8
1.0	1N3611GP to 1N3614GP and 1N3957GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	200 to 1000	1	1.0
1.0	1N4001 to 1N4007	G	Plastic Axial	DO-204AL (DO-41)	50 to 1000	1.1	1.0
1.0	1N4001GP to 1N4007GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 1000	1.1	1.0
1.0	1N4245GP to 1N4249GP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	200 to 1000	1.2	1.0
1.0	1N4383GP to 1N4385GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	200 to 600	1	1.0
1.0	1N4585GP and 1N4586GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	800 to 1000	1	1.0
1.0	1N5059GP to 1N5062GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	200 to 800	1.2	1.0
1.0	1N5614GP to 1N5622GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	200 to 1000	1.2	1.0
1.0	1N6478 to 1N6484	G	SUPERECTIFIER®SMD	DO-213AB (MELF)	50 to 1000	1.1	1.0
1.0	BYD13DGP to BYD13MGP	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	200 to 1000	1.3	1.0
1.0	BYM10-50 to BYM10-1000	G	SUPERECTIFIER®SMD	DO-213AB (MELF)	50 to 1000	1.1 / 1.2	1.0
1.0	GF1A to GF1M	G	SUPERECTIFIER®SMD	DO-214BA (GF1)	50 to 1000	1.1 / 1.2	1.0
1.0	GI1to1200GP to GI1to1600GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1200 to 1600	1.1	1.0
1.0	GL41A to GL41Y	G	SUPERECTIFIER®SMD	DO-213AB (MELF)	50 to 1600	1.1 / 1.2	1.0
1.0	GP10A to GP10Y	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 1600	1.1 / 1.2 / 1.3	1.0
1.0	GP10AE to GP10ME	G	SUPERECTIFIER®Axial	DO-204AL (DO-41)	50 to 1000	1.1 / 1.2	1.0
1.0	**GPP10A to GPP10M**	**G**	**Plastic Axial[2]**	**DO-204AL (DO-41)**	**50 to 1000**	**1.1**	**1.0**
1.0	M100A to M100M	G	Plastic Axial	DO-204AL (DO-41)	50 to 1000	1.0 / 1.1	1.0
1.0	MPG06A to MPG06M	G	Plastic Axial[2]	MPG06	50 to 1000	1.1	1.0
1.0	S1A to S1M	G	Plastic SMD[2]	DO-214AC (SMA)	50 to 1000	1.1	1.0
1.0	**S1PB to S1PM**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 1000**	**1.1**	**1.0**
2.0	**SA2B to SA2M**	**G**	**Plastic SMD[2]**	**DO-214AC (SMA)**	**100 to 1000**	**1.1**	**2.0**
1.5	1N5391 to 1N5399	G	Plastic Axial	DO-204AC (DO-15)	50 to 1000	1.4	1.5
1.5	1N5391GP to 1N5399GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	50 to 1000	1.4	1.5
1.5	AGP15-400 to AGP15to800	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	400 to 800	1.1	1.5

Note:
1. Bold text indicates new product
   "x" designates a number that indicates voltage or is part of a sequence
   "y" designates reverse voltage, where: A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V, H = 500 V, J = 600 V, K = 800 V, M = 1000 V, N = 1100 V, Q = 1200 V
   T = 1300 V, V = 1400 V, W = 1500 V, and Y = 1600 V
2. Glass passivated die
3. Source: G = formerly General Semiconductor
4. Avalanche energy 20 mJ

Standard Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F	
			Family	Type		(V)	(A)
1.5	BY448GP	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1650	1.6	3.0
1.5	BYG10D to BYG10Y[4]	T → G	Plastic SMD[2]	DO-214AC (SMA)	200 to 1600	1.1 / 1.15	1 / 1.5
1.5	CGP15	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1400	1.1	1.0
1.5	DGP15	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1500	1.1	1.0
1.5	GP15A to GP15M	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	50 to 1000	1.1	1.5
1.5	**GPP15A to GPP15M**	**G**	**Plastic Axial[2]**	**DO-204AC (DO-15)**	**50 to 1000**	**1.1**	**1.5**
1.5	S2A to S2M	G	Plastic SMD[2]	DO-214AA (SMB)	50 to 1000	1.15	1.5
2.0	CGP20	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1400	1.1	2.0
2.0	DGP20	G	SUPERECTIFIER®Axial	DO-204AC (DO-15)	1500	1.1	2.0
2.0	GP20A to GP20J	G	SUPERECTIFIER®Axial	GP20	50 to 600	1.1 / 1.2	2.0
2.0	**GPP20A to GPP20M**	**G**	**Plastic Axial[2]**	**DO-204AC (DO-15)**	**50 to 1000**	**1.1**	**2.0**
2.5	BY228GP	G	SUPERECTIFIER®Axial	DO-201AD	1500	1.6	2.5
3.0	1N5400 to 1N5408	G	Plastic Axial	DO-201AD	50 to 1000	1.2	3.0
3.0	1N5624GP to 1N5627GP	G	SUPERECTIFIER®Axial	DO-201AD	200 to 800	1.0	3.0
3.0	BY251GP to BY255GP	G	SUPERECTIFIER®Axial	DO-201AD	200 to 1300	1.1	3.0
3.0	BY251P to BY255P	G	Plastic Axial	DO-201AD	200 to 1300	1.1	3.0
3.0	CGP30	G	SUPERECTIFIER®Axial	DO-201AD	1400	1.2	3.0
3.0	DGP30	G	SUPERECTIFIER®Axial	DO-201AD	1500	1.2	3.0
3.0	GP30A to GP30M	G	SUPERECTIFIER®Axial	DO-201AD	50 to 1000	1.1 / 1.2	3.0
3.0	GI500 to GI510	G	Plastic Axial	DO-201AD	50 to 1000	1.1	9.4
3.0	P300A to P300M	G	Plastic Axial	DO-201AD	50 to 1000	1.2	3.0
3.0	S3A to S3M	G	Plastic SMD[2]	DO-214AB (SMC)	50 to 1000	1.15	2.5
4.0	**S4PB to S4PM**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**100 to 1000**	**1.10**	**4.0**
5.0	**S5A to S5M**	**G**	**Plastic SMD[2]**	**DO-214AB (SMC)**	**50 to 1000**	**1.15**	**5.0**
5.0	**S5MS**	**G**	**Plastic SMD[2]**	**DO-214AB (SMC)**	**1000**	**1.15**	**5.0**
5.0	**S5PMS**	**G**	**Plastic SMD[2]**	**TO-277A (SMPC)**	**1000**	**1.15**	**5.0**
6.0	GI750 to GI758	G	Plastic Axial	P600	50 to 800	0.90 / 0.95	6.0
6.0	**GPP60A to GPP60G**	**G**	**Plastic Axial[2]**	**P600**	**50 to 400**	**1.1**	**6.0**
6.0	P600A to P600M	G	Plastic Axial	P600	50 to 1000	0.9 / 1.0	6.0
8.0	NS8AT to NS8MT	G	Plastic Power Pack[2]	TO-220AC	50 to 1000	1.1	8.0
8.0	NSB8AT to NSB8MT	G	Power Pack SMD[2]	TO-263AB (D^2PAK)	50 to 1000	1.1	8.0
8.0	NSF8AT to NSF8MT	G	Isolated Power Pack[2]	ITO-220AC	50 to 1000	1.1	8.0

Note:
1. Bold text indicates new product
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   "y" designates reverse voltage, where: A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V, H = 500 V, J = 600 V, K = 800 V, M = 1000 V, N = 1100 V, Q = 1200 V
   T = 1300 V, V = 1400 V, W = 1500 V, and Y = 1600 V
2. Glass passivated die
3. Source: G = formerly General Semiconductor
4. Avalanche energy 20 mJ

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Standard Recovery Diodes – Plastics

$I_{F(AV)}$ (A)	Device[3][5]	Source[4]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F	
			Family	Type		(V)	(A)
8	8EWS08SxPBF and 8EWS12SxPBF	I	Power Plastic SMD[2]	TO-252 (DPAK)	800 to 1200	1.10	8.0
8	8EWS16SxPBF	I	Power Plastic SMD[2]	TO-252 (DPAK)	1600	1.10	8.0
10	10ETS08SxPBF to 10ETS12SxPBF	I	Power Plastic SMD[2][6]	TO-263AB (D^2PAK)	800 to 1200	1.10	10
20	20ETS08SxPBF to 20ETS12SxPBF	I	Power Plastic SMD[2][6]	TO-263AB (D^2PAK)	800 to 1200	1.10	20
25	25ETS08SxPBF to 25ETS12SxPBF	I	Power Plastic SMD[2][6]	TO-263AB (D^2PAK)	800 to 1200	1.14	25
10	10ETS08FPPBF and 10ETS12FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	800 to 1200	1.10	10.0
20	20ETS08FPPBF and 20ETS12FPPBF	I	Power Plastic Through Hole[2]	TO-220AC FULL-PAK	800 to 1200	1.10	20.0
10	10ETS08PBF and 10ETS12PBF	I	Power Plastic Through Hole[2]	TO-220AC	800 to 1200	1.10	10.0
20	20ETS08PBF and 20ETS12PBF	I	Power Plastic Through Hole[2]	TO-220AC	800 to 1200	1.10	20.0
20	20ATS08PBF and 20ATS12PBF	I	Power Plastic Through Hole[2]	TO-220AB	800 to 1200	1.10	20.0
40	40EPS08PBF and 40EPS12PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	800 to 1200	1.10	40.0
40	40EPS16PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1600	1.14	40.0
60	60EPS08PBF and 60EPS12PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	800 to 1200	1.09	60.0
60	60EPS16PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1600	1.07	60.0
80	80EPS08PBF and 80EPS12PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	800 to 1200	1.17	80.0
80	80EPS16PBF	I	Power Plastic Through Hole[2]	TO-247AC modified (2 pins)	1600	1.17	80.0

Note:
1. Dual center-tapped device (V_F limit @ I_F is per diode)
2. Singled die device
3. x designates tube or tape&reel version on SMD products
   none = tube
   TR = tape and reel centered (for DPAK only)
   TRL = tape and reel left oriented
   TRR = tape and reel right oriented
4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free

ESD Capability Rectifiers (Standard)

$I_{F(AV)}$ (A)	Device[1][4]	Source[3]	Package		$V_{(BR)}$ Range (V)	Max V_F at I_F	
			Family	Type		(V)	(A)
0.7	**SE07PB to SE07PJ**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 600**	**1.05**	**0.7**
1.0	**SE10PB to SE10PJ**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 600**	**1.05**	**1.0**
1.0	**MSE1PB to MSE1PJ**	**G**	**Plastic SMD[2]**	**MicroSMP**	**100 to 600**	**1.10**	**1.0**
1.5	**SE15PB to SE15PJ**	**G**	**Plastic SMD[2]**	**DO-220AA (SMP)**	**100 to 600**	**1.05**	**1.5**

Note:
1. Bold text indicates new product
   Reverse voltage, where: A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V, H = 500 V, J = 600 V
2. Oxide planar die
3. Source: G = formerly General Semiconductor
4. Accordance with IEC61000-4-2, Human body model (contact mode): > 8 kV, Human body model (air-discharge mode): >15 kV

Bridge Rectifiers are essential for any electronic equipment which requires full wave rectification of an AC power source. The bridge rectifier is comprised of four separate rectifier components configured into a "bridge" arrangement in a single package. Vishay manufactures a complete line of bridge rectifiers including fast recovery, surface-mount, and single in-line types.

$I_{F(AV)}$ (A)	Device[1]	Source[6]	Package		$V_{(BR)}$ Range (V)	Max V_F[5] at I_F	
			Family	Type		(V)	(A)
0.5	MB2M, MB4M, and MB6M	G	Mini-Bridge[2]	MBM	200 to 600	1.0	0.4
0.5	B2M, B4M, and B6M	G	Mini-Bridge[2]	MBM	200 to 600	1.0	0.5
0.5	MB2S, MB4S, and MB6S	G	Mini-Bridge (SMD)[2]	MBS (TO-269AA)	200 to 600	1.0	0.4
0.5	B2S, B4S and B6S	G	Mini-Bridge (SMD)[2]	MBS (TO-269AA)	200 to 600	1.0	0.5
0.5	RMB2S and RMB4S	G	Recovery Mini-Bridge (SMD)[2]	MBS (TO-269AA)	200 to 400	1.25	0.4
0.9	BxxC800DM	G	Dual In-Line[2]	DFM	65 to 600	1.0	0.9
0.9	B40C800G to B380C800G	G	WOG[2]	WG	65 to 600	1.0	0.9
1.0	B40C1000G to B380C1000G	G	WOG[2]	WG	65 to 600	1.0	1.0
1.0	DF005M to DF10M	G	Dual In-Line[2]	DFM	50 to 1000	1.1	1.0
1.0	DF005MA to DF10MA	G	Dual In-Line[2]	DFM	50 to 1000	1.1	1.0
1.0	DF005S to DF10S	G	Dual In-Line (SMD)[2]	DFS	50 to 1000	1.1	1.0
1.0	DF005SA to DF10SA	G	Dual In-Line (SMD)[2]	DFS	50 to 1000	1.1	1.0
1.0	EDF1AM to EDF1DM	G	Ultrafast Dual In-Line[2][3]	DFM	50 to 200	1.05	1.0
1.0	EDF1AS to EDF1DS	G	Ultrafast Dual In-Line (SMD)[2][3]	DFS	50 to 200	1.05	1.0
1.5	3N246 to 3N252	G	Single In-Line[2]	KBPM	50 to 1000	1.0 / 1.3	1.0 / 1.57
1.5	B40C1500G to B380C1500G	G	WOG[2]	WG	65 to 600	1.0	1.5
1.5	DF15005S to DF1510S	G	Dual In-Line (SMD)[2]	DFS	50 to 1000	1.1	1.5
1.5	DFL15005S to DFL1510S	G	Low-Profile DIL (SMD)[2]	L-DFS	50 to 1000	1.1	1.5
1.5	G2SB20, G2SB60, and G2SB80	G	Single In-Line[2][4]	GBL	200 to 800	1.0	0.75
1.5	G2SBA20, G2SBA60, and G2SBA80	G	Single In-Line[2][4]	GBL	200 to 800	1.0	0.75
1.5	KBP005M to KBP10M	G	Single In-Line[2]	KBPM	50 to 1000	1.0 / 1.3	1.0 / 1.57
1.5	W005G to W10G	G	WOG[2]	WG	50 to 1000	1.0	1.0
2.0	2KBP005M to 2KBP10M	G	Single In-Line[2]	KBPM	50 to 1000	1.1	3.14
2.0	2W005G to 2W10G	G	WOG[2]	WG	50 to 1000	1.1	2.0
2.0	3N253 to 3N259	G	Single In-Line[2]	KBPM	50 to 1000	1.1	3.14
3.0	GBPC1005 to GBPC110	G	GBPC with Wire Leads[2]	GBPC1	50 to 1000	1.0	1.5
3.0	**3KBP005M to 3KBP08M**	**G**	**Single In-Line[2]**	**KBPM**	**50 to 800**	**1.05**	**3.0**
4.0	G3SBA20S, G3SBA60, and G3SBA80	G	Single In-Line with Mounting Hole[2][4]	GBU	200 to 800	1.0	2.0
4.0	GBL005 to GBL10	G	Single In-Line[2]	GBL	50 to 1000	1.0	4.0

Note:
1. Bold text indicates new product
2. Glass passivated die
3. t_{rr} = 50 ns max. for EDF-1 types
4. Japanese electrical specifications
5. V_F limits are per diode
6. Source: G = formerly General Semiconductor

Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[6]	Package		$V_{(BR)}$ Range (V)	Max V_F[5] at I_F	
			Family	Type		(V)	(A)
4.0	GBLA005 to GBLA10	G	Single In-Line[2]	GBL	50 to 1000	1.0	4.0
4.0	GBU4A to GBU4M	G	Single In-Line with Mounting Hole[2]	GBU	50 to 1000	1.0	4.0
4.0	VSIB420 to VSIB480	G	Single In-Line with Mounting Hole[2]	GSIB-3S	200 to 800	0.95	2.0
4.0	VSIB4A20 to VSIB4A80	G	Single In-Line with Mounting Hole[2]	GSIB-3S	200 to 800	1.0	2.0
4.0	KBL005 to KBL10	G	Single In-Line	KBL	50 to 1000	1.1	4.0
4.0	KBU4A to KBU4M	G	Single In-Line with Mounting Hole	KBU	50 to 1000	1.0	4.0
6.0	GBPC6005 to GBPC610	G	GBPC with Wire Leads[2]	GBPC6	50 to 1000	1.0	3.0
6.0	GBU6A to GBU6M	G	Single In-Line with Mounting Hole[2]	GBU	50 to 1000	1.0	6.0
6.0	G5SBA20, G5SBA60, and G5SBA80	G	Single In-Line with Mounting Hole[2][4]	GBU	200 to 800	1.05	3.0
6.0	GSIB620 to GSIB680	G	Single In-Line with Mounting Hole[2]	GSIB-5S	200 to 800	0.95	3.0
6.0	GSIB6A20 to GSIB6A80	G	Single In-Line with Mounting Hole[2]	GSIB-5S	200 to 800	1.0	3.0
6.0	KBU6A to KBU6M	G	Single In-Line with Mounting Hole	KBU	50 to 1000	1.0	6.0
6.0	VSIB620 to VSIB680	G	Single In-Line with Mounting Hole[2]	GSIB-5S	200 to 800	0.95	3.0
6.0	VSIB6A20 to VSIB6A80	G	Single In-Line with Mounting Hole[2]	GSIB-5S	200 to 800	1.0	3.0
8.0	GBU8A to GBU8M	G	Single In-Line with Mounting Hole[2]	GBU	50 to 1000	1.0	8.0
8.0	KBU8A to KBU8M	G	Single In-Line with Mounting Hole	KBU	50 to 1000	1.0	8.0
10	**BU1006 to BU1010**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.05**	**5**
10	**BU1006A to BU1010A**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.1**	**5**
10	VSIB10A20 to VSIB10A80	G	Single In-Line with Mounting Hole[2]	GSIB-5S	200 to 800	1	5
12	**BU1206 to BU1210**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.05**	**6**
12	GBPC12005 to GBPC1210	G	GBPC with Fast-On Lugs[2]	GBPC12-35	50 to 1000	1.1	6.0
12	GBPC12005W to GBPC1210W	G	GBPC with Wire Leads[2]	GBPC12-35W	50 to 1000	1.1	6.0
15	**BU1506 to BU1510**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.05**	**7.5**
15	GBPC15005 to GBPC1510	G	GBPC with Fast-On Lugs[2]	GBPC12-35	50 to 1000	1.1	7.5

Note:
1. Bold text indicates new product
2. Glass passivated die
3. t_{rr} = 50 ns max. for EDF-1 types
4. Japanese electrical specifications
5. V_F limits are per diode
6. Source: G = formerly General Semiconductor

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Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[6]	Package		$V_{(BR)}$ Range (V)	Max V_F[5] at I_F	
			Family	Type		(V)	(A)
15	GBPC15005W to GBPC1510W	G	GBPC with Wire Leads[2]	GBPC12-35W	50 to 1000	1.1	7.5
15	GSIB1520 to GSIB1580	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	0.95	7.5
15	GSIB15A20 to GSIB15A80	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1.0	7.5
15	VSIB1520 to VSIB1580	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	0.95	7.5
15	VSIB15A20 to VSIB15A80	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1.0	7.5
20	**BU2006 to BU2010**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.05**	**10**
20	GSIB2020 to GSIB2080	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1.1	10
20	VSIB2020 to VSIB2080	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1	10
25	**BU2506 to BU2510**	**G**	**Single In-Line with Mounting Hole[2]**	**BU**	**600 to 1000**	**1.05**	**12.5**
25	GBPC25005 to GBPC2510	G	GBPC with Fast-On Lugs[2]	GBPC12-35	50 to 1000	1.1	12.5
25	GBPC25005W to GBPC2510W	G	GBPC with Wire Leads[2]	GBPC12-35W	50 to 1000	1.1	12.5
25	GSIB2520 to GSIB2580	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1.05	12.5
25	VSIB2520 to VSIB2580	G	Single In-Line with Mounting Hole[2][4]	GSIB-5S	200 to 800	1	12.5
30	**PB3006 to PB3010**	**G**	**Single In-Line with Mounting Hole[2]**	**PB**	**600 to 1000**	**1.10**	**15**
35	GBPC35005 to GBPC3510	G	GBPC with Fast-On Lugs[2]	GBPC12-35	50 to 1000	1.1	17.5
35	GBPC35005W to GBPC3510W	G	GBPC with Wire Leads[2]	GBPC12-35W	50 to 1000	1.1	17.5
35	**PB3506 to PB3510**	**G**	**Single In-Line with Mounting Hole[2]**	**PB**	**600 to 1000**	**1.10**	**17.5**
40	**PB4006 to PB4010**	**G**	**Single In-Line with Mounting Hole[2]**	**PB**	**600 to 1000**	**1.10**	**20**
45	**PB5006 to PB5010**	**G**	**Single In-Line with Mounting Hole[2]**	**PB**	**600 to 1000**	**1.10**	**22.5**

Note:
1. Bold text indicates new product
2. Glass passivated die
3. t_{rr} = 50 ns max. for EDF-1 types
4. Japanese electrical specifications
5. V_F limits are per diode
6. Source: G = formerly General Semiconductor

Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[2]	Package		$V_{(BR)}$ Range (V)	Max V_F[3] at I_F	
			Family	Type		(V)	(A)
1.2	1KAB10E to 1KAB100E	I	Single-Phase Rectifier Bridge	KAB	50 to 1000	1.1	1.2
1.9	2KBB05 to 2KBB100	I	Single In-Line Phase Rectifier Bridge	KBB	50 to 1000	1.1	1.9
2	2KBP005 to 2KBP10	I	Single In-Line Phase Rectifier Bridge	KBP	50 to 1000	1.0	1.0
3	KBPC1005 to KBPC110	I	Single-Phase Rectifier Bridge	KBPC	50 to 1000	1.1	1.5
6	KBPC6005 to KBPC610	I	Single-Phase Rectifier Bridge	KBPC	50 to 1000	1.2	3.0
8	KBPC8005 to KBPC810	I	Single-Phase Rectifier Bridge	KBPC	50 to 1000	1.0	3.0
25	GBPC2502A to GBPC2512A	I	GBPC with Fast-On Lugs	GBPC25A	200 to 1200	1.1	25
25	GBPC2502W to GBPC2512W	I	GBPC with Wire Leads	GBPC25W	200 to 1200	1.1	25
25	P131 to P135	I	Single-Phase Fully Controlled Bridge	Pace-Pak (D-19)	400 to 1200	1.35	79
25	26MB05A to 26MB160A	I	Single-Phase Rectifier Bridge	MB (D-34)	50 to 1600	1.25	40
25	P121 to P125	I	Single-Phase Semi-Controlled Bridge Doubler	Pace-Pak (D-19)	400 to 1200	1.35	79
25	P101 to P105[4][5]	I	Single-Phase Semi-Controlled Bridge	Pace-Pak (D-19)	400 to 1200	1.35	79
25	26MT10 to 26MT160	I	Three-Phase Bridge	MT (D-63)	100 to 1600	1.26	40
30	**35MT120PB**[6]	**I**	**Ultrafast Single-Phase Bridge (Under development)**	**MTP..PB**	**1200**	**2.4**[7]	**30**
35	GBPC3502A to GBPC3512A	I	GBPC with Fast-On Lugs	GBPC35A	200 to 1200	1.1	35
35	GBPC3502W to GBPC3512W	I	GBPC with Wire Leads	GBPC35W	200 to 1200	1.1	35
35	36MB05A to 36MB160A	I	Single-Phase Rectifier Bridge	MB (D-34)	50 to 1600	1.3	55
35	36MT10 to 36MT160	I	Three-Phase Bridge	MT (D-63)	100 to 1600	1.19	40
40	P431 to P435	I	Single-Phase Fully Controlled Bridge	Pace-Pak (D-19)	400 to 1200	1.4	126
40	P421 to P425	I	Single-Phase Semi-Controlled Bridge Doubler	Pace-Pak (D-19)	400 to 1200	1.4	126
40	P401 to P405[4][5]	I	Single-Phase Semi-Controlled Bridge	Pace-Pak (D-19)	400 to 1200	1.4	126
40	40MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	1600	2.0	100
45	40MT160PBPBF and 40MT160PAPBF	I	Three-Phase Bridge	MTP..PA and MTP..PB	1600	1.45	40
50	54MT80KPBF to 54MT160KPBF	I	Three-Phase AC Switch	MTK (Screwable)	800 to 1600	2.68	150

Note:
1. Bold text indicates new product
2. Source: I = formerly International Rectifier Diode unit
3. V_F limits are per diode
4. Voltage Suppressor Available (identified by suffix "K")
5. With both voltage suppression and freewheeling diode available (identified by sufix "KW")
6. T_{rr} = 110 ns typical
7. Typical value

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Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device[1]	Source[2]	Package		$V_{(BR)}$ Range (V)	Max V_F[3] at I_F	
			Family	Type		(V)	(A)
55	53MT80KPBF to 53MT160KPBF	I	Fully Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	2.68	150
55	51MT80KPBF to 51MT160KPBF	I	Negative Half Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	2.68	150
55	52MT80KPBF to 52MT160KPBF	I	Positive Half Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	2.68	150
60	60MT80KPBF to 60MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.75	100
70	70MT80KPBF to 70MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.6	100
75	70MT160PBPBF and 70MT160PAPBF	I	Three-Phase Bridge	MTP..PA and MTP..PB	1600	1.45	70
75	100MT160PBPBF and 100MT160PAPBF	I	Three-Phase Bridge	MTP..PA and MTP..PB	1600	1.51	100
90	93MT80KPBF to 93MT160KPBF	I	Fully Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.65	150
90	113MT80KPBF to 113MT160KPBF	I	Fully Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.57	150
90	91MT80KPBF to 91MT160KPBF	I	Negative Half Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.65	150
90	111MT80KPBF to 111MT160KPBF	I	Negative Half Controlled Three-Phase bridge	MTK (Screwable)	800 to 1600	1.57	150
90	92MT80KPBF to 92MT160KPBF	I	Positive Half Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.65	150
90	112MT80KPBF to 112MT160KPBF	I	Positive Half Controlled Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.57	150
90	94MT80KPBF to 94MT160KPBF	I	Three-Phase AC Switch	MTK (Screwable)	800 to 1600	1.55	150
90	90MT80KPBF to 90MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.6	150
100	104MT80KPBF to 104MT160KPBF	I	Three-Phase AC Switch	MTK (Screwable)	800 to 1600	1.53	150
110	110MT80KPBF to 110MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.4	150
130	130MT80KPBF to 130MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.63	200
160	160MT80KPBF to 160MT160KPBF	I	Three-Phase Bridge	MTK (Screwable)	800 to 1600	1.49	200
200	200MT40KPBF	I	Three-Phase Bridge	MTK (Screwable)	400	1.4	200

Note:
1. Bold text indicates new product
2. Source: I = formerly International Rectifier Diode unit
3. V_F limits are per diode
4. Voltage Suppressor Available (identified by suffix "K")
5. With both voltage suppression and freewheeling diode available (identified by sufix "KW")
6. T_{rr} = 110 ns typical
7. Typical value

Rectifier Packages


SMPC
(TO-277A)


SMP
(DO-220AA)


MicroSMP


SMA
(DO-214AC)


SMB
(DO-214AA)


SMC
(DO-214AB)


DPAK
(TO-252)


D^2PAK
(TO-263AB)


IPAK
(TO-251)


TO-220AB


TO-220AC

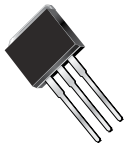

TO-220FPAC


ITO-220AB


ITO-220AC


TO-247AC


TO-247AD


TO262AA

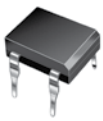

TO-218


TO-3PW


Super TO-247


D-61

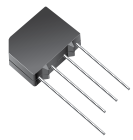

MBS
(TO-269AA)


DFM

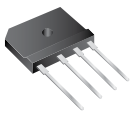

DFS


DFLS


GBPC1


KBPM

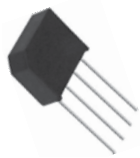

GBL


5S


3S


D-38


2KBB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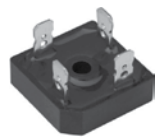
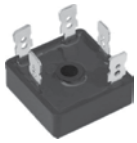
D-72

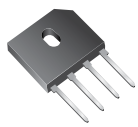

D-34

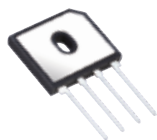

D-63


MTK


MTP


PB


GBU


BU

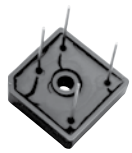

PowerTab™


WOG


KBU


KBL


KBL


GBPC - W


GBPC


P600


DO-204AC


DO-204AL


MPG06

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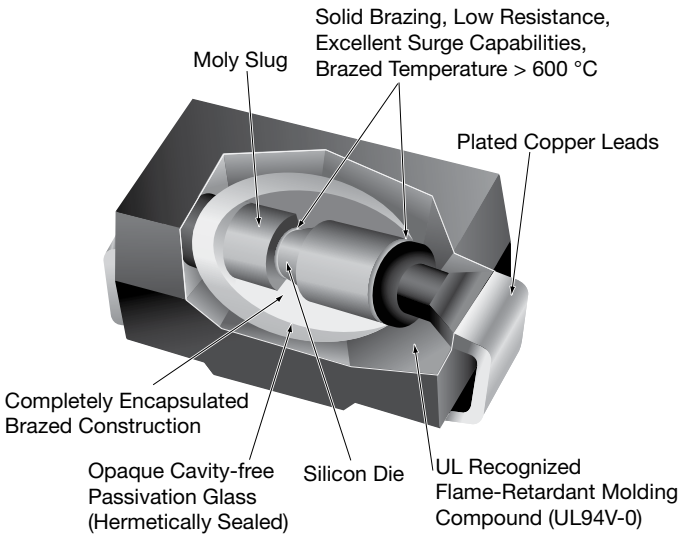
Sample Package Construction

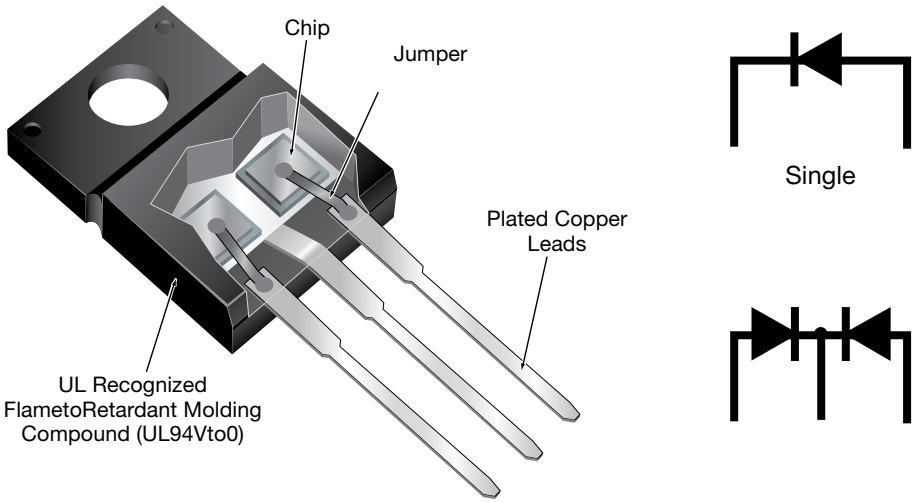
SUPERECTIFIER®

The SUPERECTIFIER is exactly that: a super rectifier. This highlytoreliable and cost-effective rectifier is the result of a combination of patented technologies. No other 0.25 A to 3.0 A rectifiers of any kind — plastic, glass, or metal — can match the SUPERECTIFIER combination of features that result from Vishay's unique glasstoplastic construction. SUPERECTIFIER products are offered in standard, fast, and ultrafast types for both axial and surface mounting.



ITO-220AB

Vishay offers the TO-220 power package with either the heat sink exposed or with an isolated body, as shown below.



Notes

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