Bridge Rectifier



RoHS Compliant



Features

- · Glass passivated
- · Ideal for printed circuit board
- · Low forward voltage drop, high current capability

Specifications

Reverse Voltage : 400 Volts Forward Current : 6 Amperes

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	400	
Max. RMS Voltage	VRMS	280	V
Max. DC Blocking Voltage	V DC	400	
Max. Average Forward (with heatsink Note 2) Rectified Current at Tc = 100°C (without heatsink)	I(AV)	6 2.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150	
Max. Forward Voltage at 4 A DC	VF	1.1	V
Max. DC Reverse Current at $T_J = 25^{\circ}$ C at Rated DC Blocking Voltage at $T_J = 125^{\circ}$ C	lr	10 500	μА
I ² t Rating For Fusing (t < 8.3ms)	I ² t	120	A ² s
Typical Junction Capacitance per Element (Note 1)	Сл	55	pF
Typical Thermal Resistance (Note 2)	R _{0JC}	1.8	°C / W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg		

Note:

- 1. Measured at 1MHz and applied reverse voltage of 4 V DC
- 2. Device mounted on 75mm × 75mm × 1.6mm Cu plate heatsink

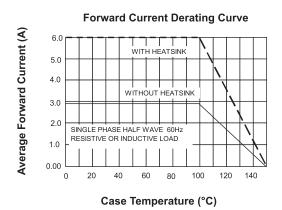
Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro



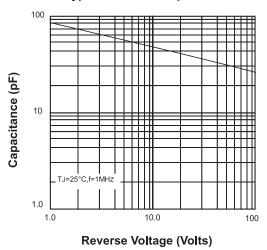
Bridge Rectifier



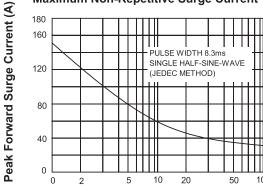
Rating and Characteristic Curves



Typical Junction Capacitance

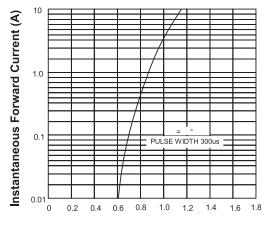


Maximum Non-Repetitive Surge Current



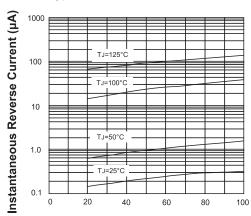
Number of Cycles at 60Hz

Typical Forward Characteristics



Instantaneous Forward Voltage (Volts)

Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)

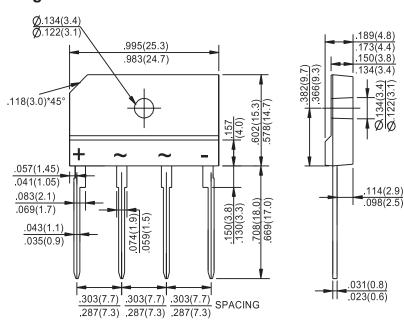
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Bridge Rectifier



Diagram



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Bridge Rectifier, 400V, 6A	VSIB640	

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