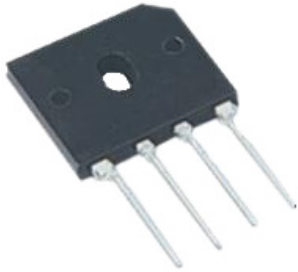


Bridge Rectifier Diode



RoHS
Compliant



Features

- Ideal for printed circuit board
- Reliable low cost construction
- Plastic material
- High case dielectric strength of 1,500V_{RMS}
- Surge overload rating to 200 amperes peak
- High temperature soldering guaranteed: 260°C/10 seconds / 0.375 inch, (9.5mm) lead lengths

Mechanical Data

Case	: Molded plastic body
Terminals	: Plated leads solderable per MIL-STD-750, Method 2026
Weight	: 0.3 ounce, 8.0 grams
Mounting torque	: 5in. Maximum

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	Units
Max. Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Max. RMS Voltage	V_{RMS}	280	
Max. DC Blocking Voltage	V_{DC}	400	
Max. Average Forward Rectified Current at $T_c = 100^\circ\text{C}$	$I_{(AV)}$	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	220	
Maximum Instantaneous Forward Voltage at 5.0A at 10A	V_F	1.0 1.1	V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	I_R	5.0 500	μA
Typical Junction Capacitance (Note 3)	C_J	221	pF
Typical Thermal Resistance Per Leg (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	21 2.0	$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-50 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

Notes 1: Units Mounted in Free Air No Heat Sink on PCB 0.5 × 0.5 inches (12mm × 12mm) Copper Pads, 0.375 inch (9.5mm) Lead Length.

2: Device Mounted on 4 x 6 x 0.25 inches Plate Heatsink

3: Measured at 1.0MHz and applied Reverse Voltage of 4.0V

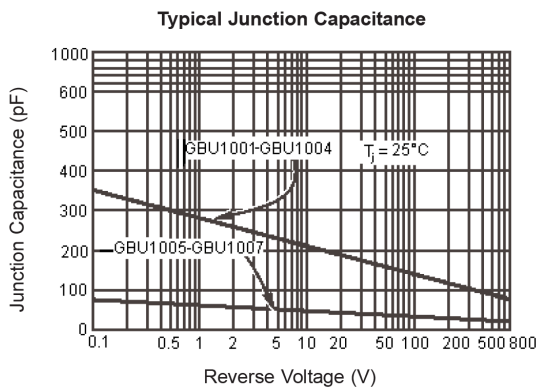
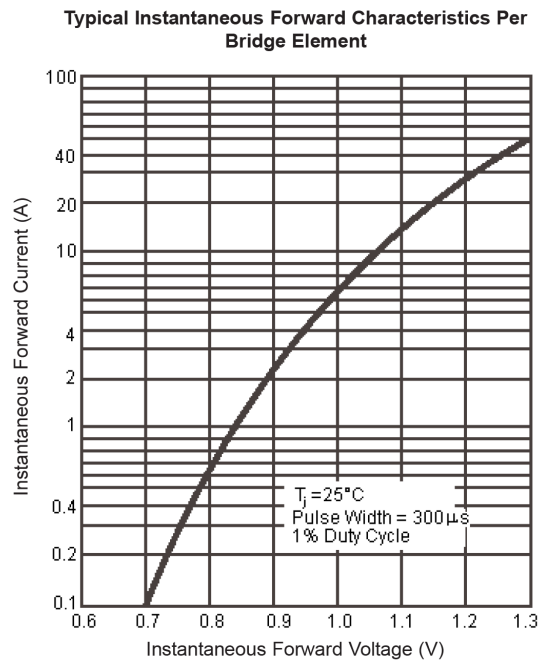
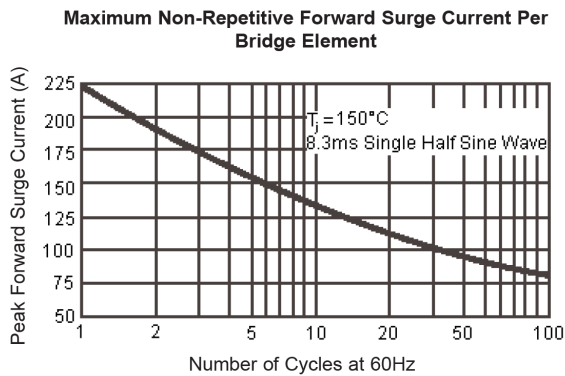
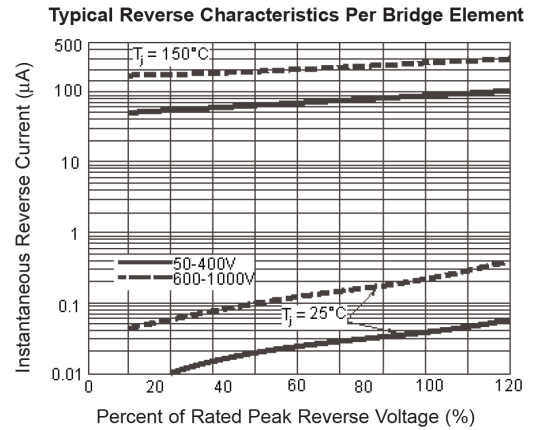
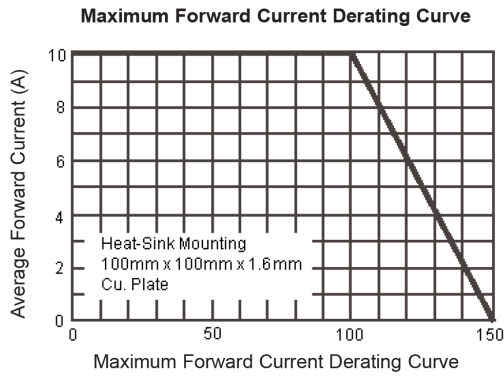
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Bridge Rectifier Diode



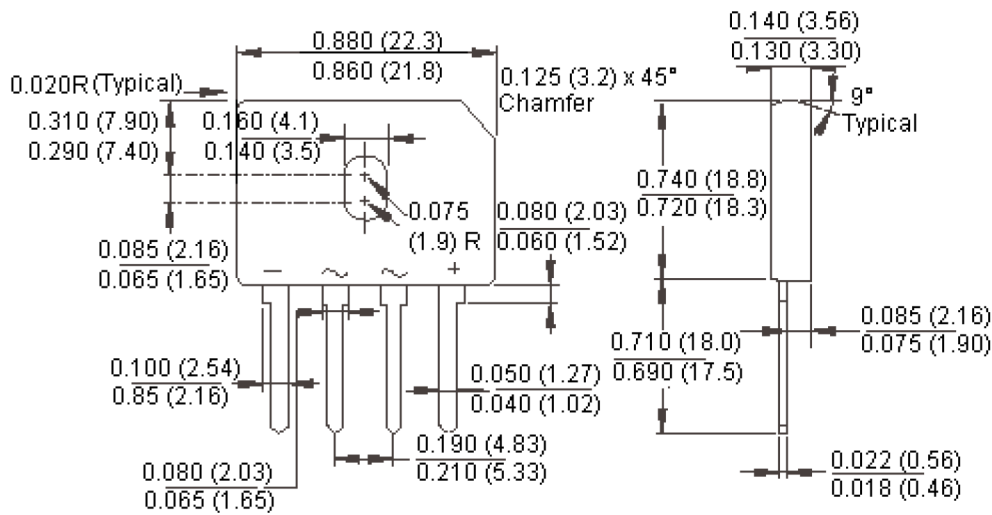
Ratings and Characteristic Curves



Bridge Rectifier Diode



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 10A, 400V	GBU1004+

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