

Glass Passivated Bridge Rectifier



Features

- Surge overload rating -175 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver plated copper leads

Mechanical Data

Mounting Position : Any
 Reverse Voltage : 50 to 800 Volts
 Forward Current : 10 Ampere

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	MP10005G	MP1004G	MP1006G	MP1008G	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	50	400	600	800	V
Max. RMS Bridge Input Voltage	V_{RMS}	35	280	420	560	V
Max. Average Forward Rectified Output Current at @ $T_A = 75^\circ C$	$I_{(AV)}$	10				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	175				A
Max. Forward Voltage Drop Per Bridge Element at 5.0A Peak	V_F	1.1				V
Max. Reverse Current at Rated DC Blocking Voltage Per Element	I_R	10 1				μA mA
Operating Temperature Range	T_J	-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}					$^\circ C$

Ratings and Characteristic Curves

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

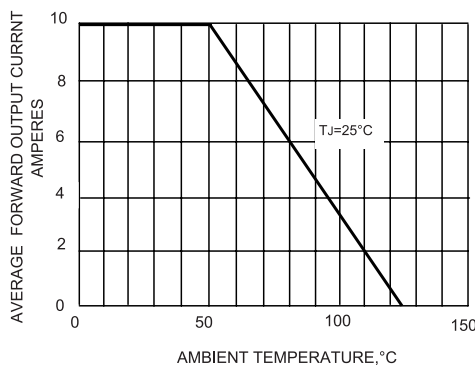
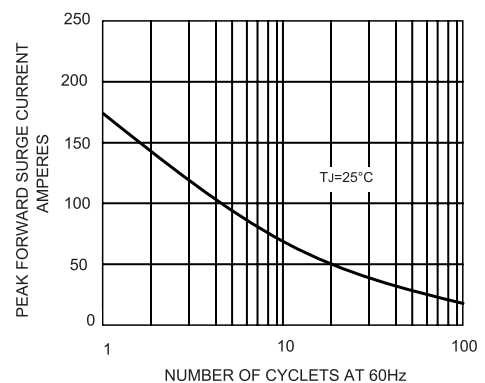


FIG.2-MAXIMUM FORWARD SURGE CURRENT



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FIG.3-TYPICAL FORWARD CHARACTERISTICS

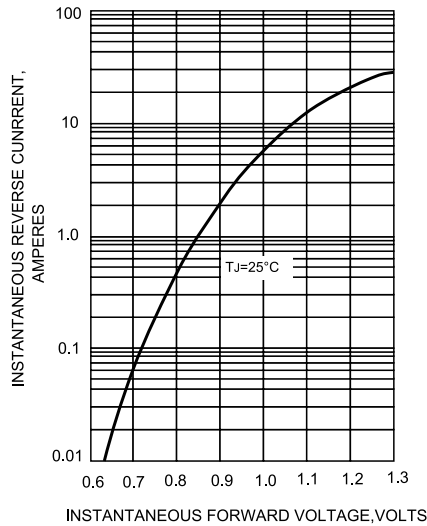
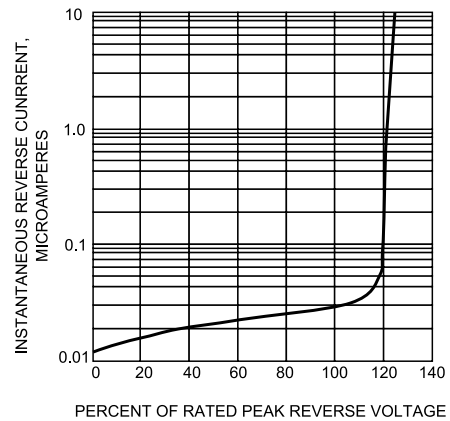
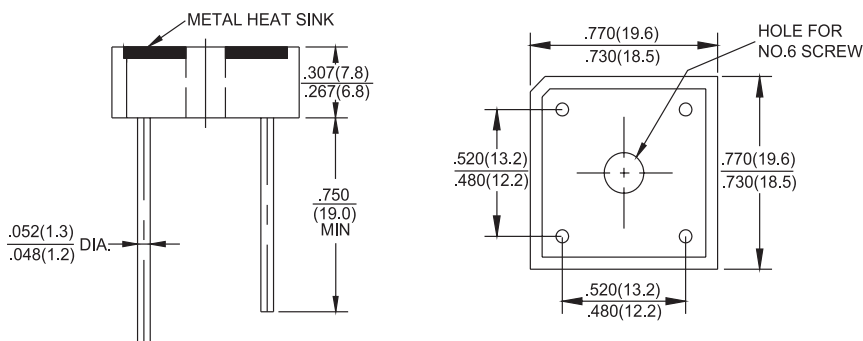


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Dimensions:

MP8



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifiers, 10A 400V	MP1004G
Glass Passivated Bridge Rectifiers, 10A 50V	MP10005G
Glass Passivated Bridge Rectifiers, 10A 600V	MP1006G
Glass Passivated Bridge Rectifiers, 10A 800V	MP1008G

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