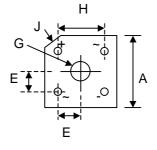


# MP1000 - MP1010

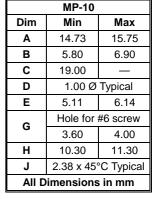
## **10A BRIDGE RECTIFIER**

### **Features**

- Diffused Junction
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has Underwriters Laboratory Flammability Classification 94V-O



Metal Heat Sink



### **Mechanical Data**

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Marked on Body

• Weight: 5.4 grams (approx.)

Mounting Position: Through Hole for #6 Screw
 Mounting Torque: 5.0 Inch-pounds Maximum

Marking: Type Number

\_\_\_\_\_\_

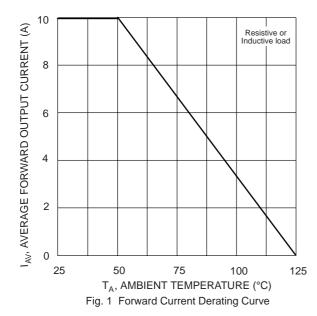
Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

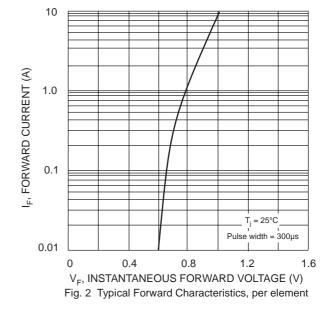
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

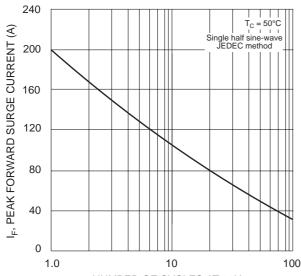
Characteristic	S	ymbol	MP 1000	MP 1001	MP 1002	MP 1004	MP 1006	MP 1008	MP 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V	R(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 5	0°C	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	200			А				
Forward Voltage (per element) @I <sub>F</sub> = 5.	0A	VFM				1.1				V
Peak Reverse Current $@T_C = 25$ At Rated DC Blocking Voltage $@T_C = 100$		IR	10 1.0					μA mA		
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 2)		l <sup>2</sup> t				64				A <sup>2</sup> s
Typical Junction Capacitance (Note 3)		Cj				110				pF
Typical Thermal Resistance (Note 4)	F	R∌JC				7.5				K/W
Operating and Storage Temperature Range	Tj	j, Tstg			-6	55 to +12	25			°C

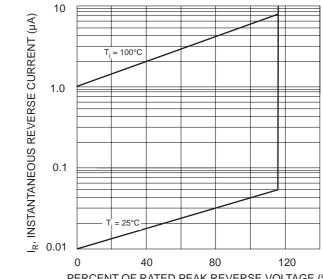
Note: 1. Mounted on heatsink.

- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to case per element.









NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4 Typical Reverse Characteristics, per element

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity				
MP1000	Square Bridge	200 Units/Box				
MP1001	Square Bridge	200 Units/Box				
MP1002	Square Bridge	200 Units/Box				
MP1004	Square Bridge	200 Units/Box				
MP1006	Square Bridge	200 Units/Box				
MP1008	Square Bridge	200 Units/Box				
MP1010	Square Bridge	200 Units/Box				

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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