

## MP1000G - MP1010G

### 10A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER



### **Features**

- Glass Passivated Die Construction
- High Current Capability
- High Case Dielectric Strength
- High Surge Current Capability
- Ideal for Printed Circuit Board Application
- Plastic Material has UL Flammability 94V-0
- Recognized File # E157705

Metal Heatsink



### **Mechanical Data**

Case: MP-10, Molded Plastic with Heatsink

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Marked on Body

Weight: 3.8 grams (approx.)

Mounting Position: Through Hole for #6 Screw

Mounting Torque: 0.8 N.m Max.

Marking: Type Number

Lead Free: For RoHS / Lead Free Version. Add "-LF" Suffix to Part Number, See Page 4

### 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	Symbol	MP 1000G	MP 1001G	MP 1002G	MP 1004G	MP 1006G	MP 1008G	MP 1010G	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	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T <sub>C</sub> = 50°C	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				175				А
Forward Voltage per leg @I <sub>F</sub> = 5.0A	VFM				1.2				V
	IRM				10 500				μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t				166				A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	Cı		2	11			94		pF
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC				22 6.0				°C/W
RMS Isolation Voltage Terminals to Case, t = 1min	Viso				1500				V
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150				°C			

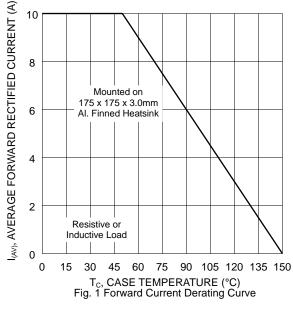
Note: 1. Mounted on 175 x 175 x 3.0mm thick Al. heatsink.

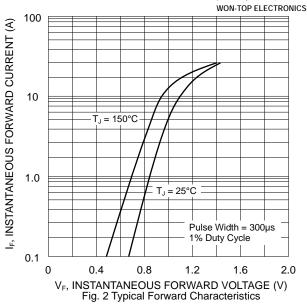
Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

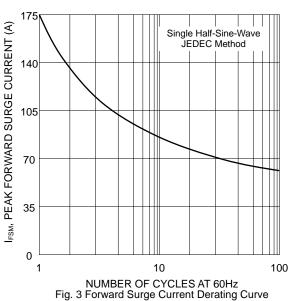
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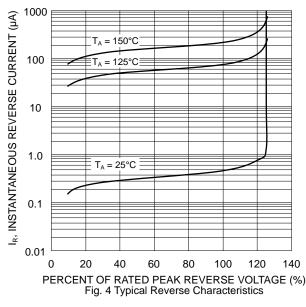
# MP1000G - MP1010G

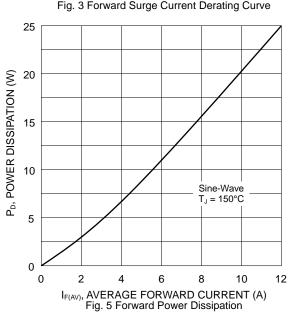


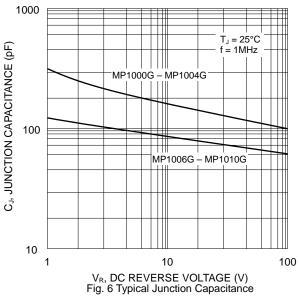






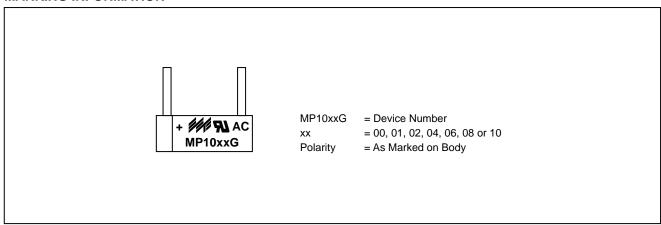








### **MARKING INFORMATION**



### **PACKAGING INFORMATION**

### **BULK**

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
198 x 198 x 50	200	425 x 215 x 280	2,000	8.0

Note: 1. Paper box, white or brown color.



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
MP1000G	Square Bridge	200 Units/Box
MP1001G	Square Bridge	200 Units/Box
MP1002G	Square Bridge	200 Units/Box
MP1004G	Square Bridge	200 Units/Box
MP1006G	Square Bridge	200 Units/Box
MP1008G	Square Bridge	200 Units/Box
MP1010G	Square Bridge	200 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MP1000G-LF.

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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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan **Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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