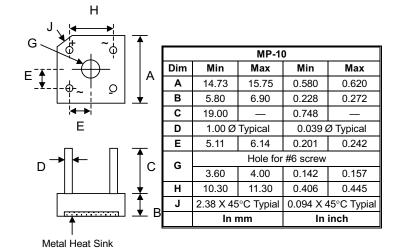
SEMICONDUCTOR

Data Sheet 1318, Rev. A

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
- UL Recognized File # E223064



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 @TA=25°C unless otherwise specified

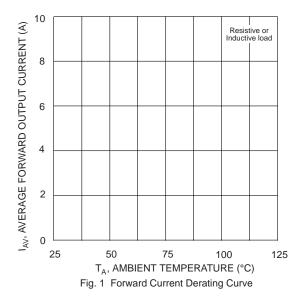
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

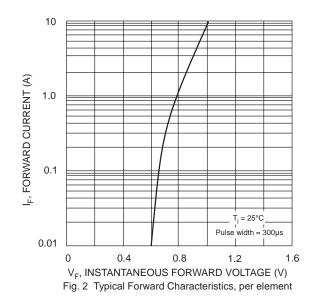
Characteristic	Symbol	MP 1000	MP 1001	MP 1002	MP 1004	MP 1006	MP 1008	MP 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 50°C	lo	10							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200							А
Forward Voltage (per element) @I _F = 5.0A	VFM	1.1						٧	
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 100°C	lR	10 1.0						μA mA	
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t				64				A ² s
Typical Junction Capacitance (Note 3)	Cj	110					pF		
Typical Thermal Resistance (Note 4)	R_{θ} JC	7.5					K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +125						°C	

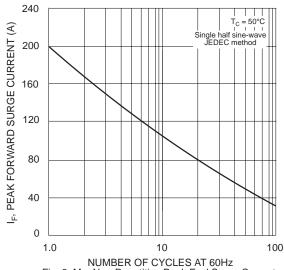
Note: 1. Mounted on heatsink.

- 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.
- 221 West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798
 - World Wide Web Site http://www.sensitron.com
 E-Mail Address sales@sensitron.com

Data Sheet 1318, Rev. A







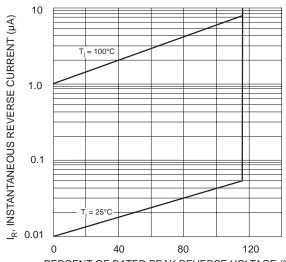


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

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

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