SEMICONDUCTOR

10A BRIDGE RECTIFIER

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

MP-10 Min Dim Max Min Max 14.73 15.75 0.580 0.620 В 5.80 6.90 0.228 0.272 С 19.00 0.748 1.00 Ø Typical 0.039 Ø Typical D Ε 6.14 0.201 0.242 Hole for #6 screw G 3.60 4.00 0.142 0.157 Н 10.30 11.30 0.406 0.445 2.38 X 45°C Typial 0.094 X 45°C Typial In mm In inch

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%.

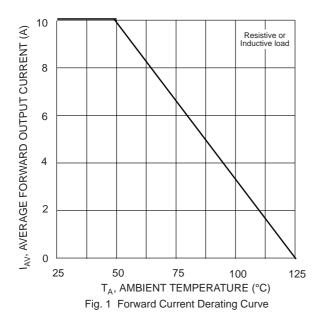
Characteristic	Symbol	MP 1000	MP 1001	MP 1002	MP 1004	MP 1006	MP 1008	MP 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 50°	C Io	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 = 5.0	A VFM	1.1						V	
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 100°C	I ID	10 1.0						μA mA	
I ² t Rating for Fusing (t<8.3ms) (Note 2)	l ² t				64				A^2s
Typical Junction Capacitance (Note 3)	Cj				110				pF
Typical Thermal Resistance (Note 4)	RθJC	7.5					K/W		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +125						°C	

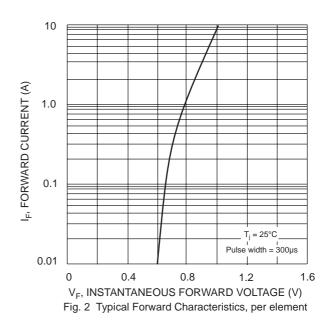
Metal Heat Sink

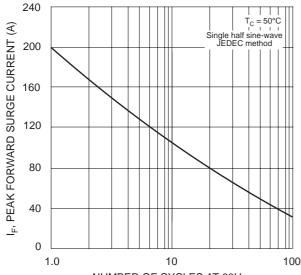
Note: 1. Mounted on heatsink.

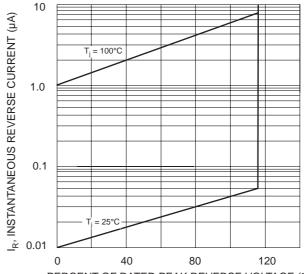
- 2. Non-repetitive, for t > 1ms and < 8.3ms.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to case per element.
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 - World Wide Web Site http://www.sensitron.com
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NUMBER 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



TECHNICAL DATA

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