



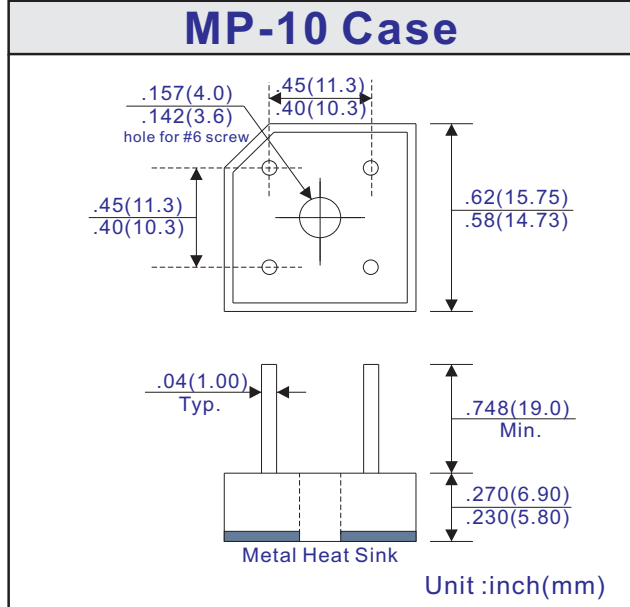
**MP1000 thru
 MP1010**

**10.0A Single-Phase Silicon
 Bridge Rectifiers - 50V-1000V**



- FEATURES**
- Surge overload ratings to 200 amperes peak
 - Ideal for printed circuit board
 - Reliable low cost construction technique
 - Open Junction chip cells inside
 - High case dielectric strength
 - Low forward drop voltage & reverse leakage current
 - Lead-free parts for green partner, meet RoHS requirements

- MECHANICAL DATA**
- Case: Potted plastic square MP-10 case with heat sink
 - Epoxy: UL94-V0 rated flame retardant
 - Terminals: Solderable per MIL-STD-750 Method 2026
 - Polarity: As marked
 - Mounting Position: Hole thru for #6 screw
 - Mounting Torque: 10cm -kg(8.8 in-lbs) max.
 - Weight: 0.14 ounces, 3.8 grams



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS
 Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	MP 1000	MP 1001	MP 1002	MP 1004	MP 1006	MP 1008	MP 1010	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, See Figure 1, TA=50°C (Note 1)	I(AV)	10.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200.0							Amps
Maximum Instantaneous Forward Voltage at 5.0A	VF	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA= 25°C TA=100°C	IR	5.0 500.0							µA
Rating for fusing (t<8.3mS)	I ² t	64							A ² sec
Typical Junction Capacitance (Note 2)	CJ	110							pF
Typical Thermal Resistance Per Leg (Note 1)	RθJC	7.5							°C/W
Operating Junction Temperature Range	TJ	-55 ~ +125							°C
Storage Temperature Range	TSTG	-65 ~ +150							°C

Note 1. Mounted on metal chassis
 2. Measured at 1.0MHz and applied reverse voltage of 4.0Volts

