Silicon Bridge Rectifiers



MP1000-G THRU MP1010-G (RoHS Device)

Reverse Voltage: 50 ~ 1000 Volts

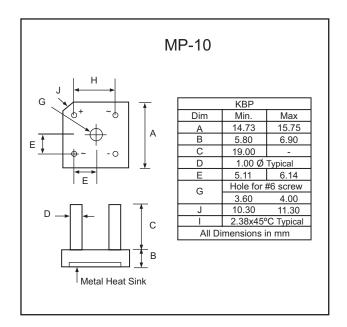
Forward Current: 10 Amp

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-0

Mechanical Data:

- · Case: Molded Plastic
- Terminals: Plated Leads Solderable Per MIL STD-202, Method 208
- Weight: 5.4 grams (approx.)
- Mounting position: Through Hole for #6 Screw



Maximum Ratings and Electrical Characteristics

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

Characteristics	Symbol	MP 1000-G	MP 1001-G	MP 1002-G	MP 1004-G	KBP 1006-G	KBP 1008-G	KBP 1010-G	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note1) @ 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)	I _{FSM}	200							А
Forward Voltage (per element) @ I _F =2.0A	V _{FM}	1.1						V	
Peak Reverse Current @ T _A =25°C At Rated DC Blocking Voltage @ T _A =100°C	I _{RM}	10 1.0							uA
Rating for Fusing (t<8.3ms) (Note2)	I ² t	64						A ² S	
Typical Thermal Resistance (Note4)	RθJA	7.5						K/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +160							°C
Typical Junction Capacitance (Note3)	CJ	110							pF

Note: 1. Non-repetitive for t>1ms and <8.3ms.

- 2. Thermal resistance junction to ambient mounted on PC board with 13.0 x 13.0 x 0.03 mm thick land areas.
- 3. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
- 4. Thermal resistance junction to case per element.

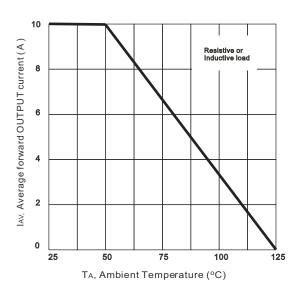
"-G" suffix designated RoHS compliant version

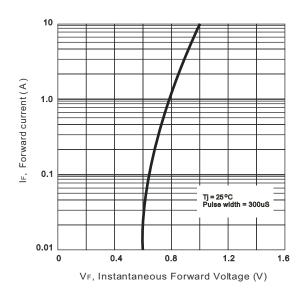
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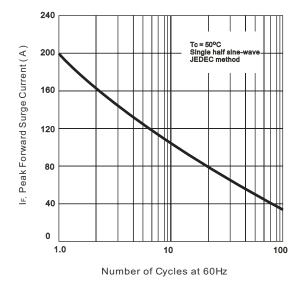


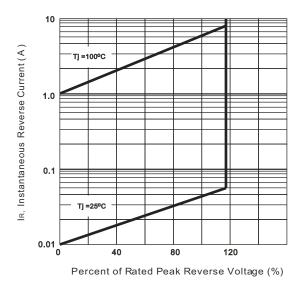
MP1000-G THRU MP1010-G (RoHS Device)

Rating and Characteristic Curve (MP1000-G thru MP1010-G)









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