

**51** E502650

## **Features**

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Leakage And Low Forward Voltage
- Any Mounting Position
- · Silver Plated Copper Leads

# 10 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 25°C/W Junction to Ambient
- Typical Thermal Resistance: 2.2°C/W Junction to Case

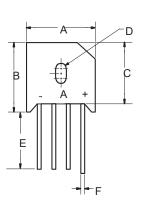
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS1001	RS1001	50V	35V	50V
RS1002	RS1002	100V	70V	100V
RS1003	RS1003	200V	140V	200V
RS1004	RS1004	400V	280V	400V
RS1005	RS1005	600V	420V	600V
RS1006	RS1006	800V	560V	800V
RS1007	RS1007	1000V	700V	1000V

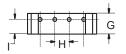
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	250A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V	I <sub>FM</sub> = 5.0A ; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10μA 300mA	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

# RS-6





DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.895	0.935	22.70	23.70		
В		0.760		19.30		
С	0.660	0.728	16.80	18.50		
D	0.15Ø X	X 0.23L	3.8Ø X	5.57L	HOLE	
Е	0.787		20.00			
F	0.048	0.052	1.20	1.30		
G	0.260	0.280	6.60	7.10		
Н	0.180	0.220	4.60	5.60		
ı	0.181	0.205	4.60	5.20		

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 1%



## **Curve Characteristics**

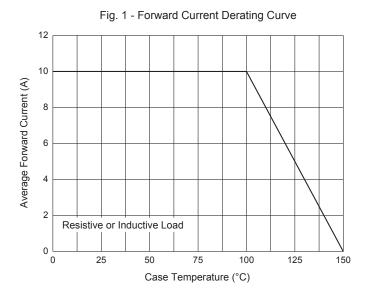
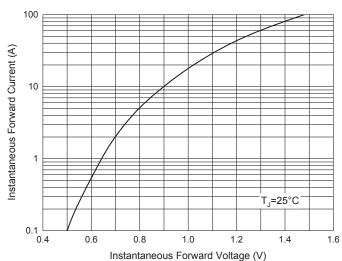


Fig. 3 - Typical Instantaneous Forward Characteristics



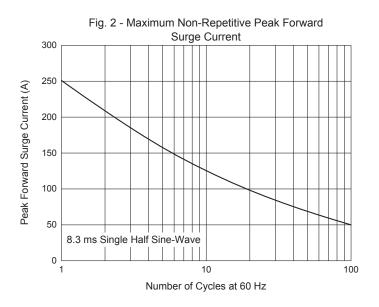
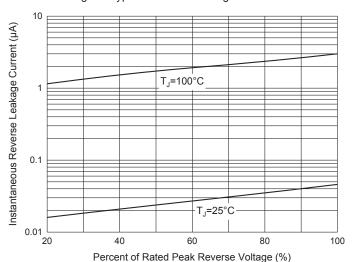


Fig. 4 - Typical Reverse Leakage Characteristics





# **Ordering Information**

Device	Packing	
Part Number-BP	Bulk: 400Pcs/Box,2.4KPcs/Carton	

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