

	E502650
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Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Leakage And Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads

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

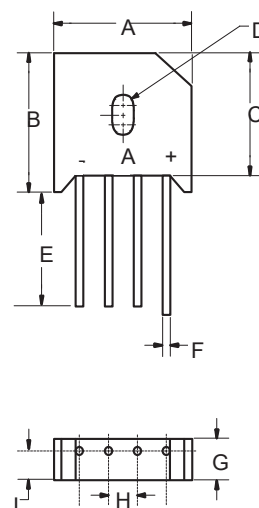
Average Forward Current	$I_{F(AV)}$	10A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 5.0A$; $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10µA 300mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

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

*Pulse test: Pulse width 300 µsec, Duty cycle 1%

**10 Amp
Single Phase Bridge
Rectifier
50 to 1000 Volts**

RS-6



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.895	0.935	22.70	23.70	
B	---	0.760	---	19.30	
C	0.660	0.728	16.80	18.50	
D	0.150	0.23L	3.80	5.57L	HOLE
E	0.787	---	20.00	---	
F	0.048	0.052	1.20	1.30	
G	0.260	0.280	6.60	7.10	
H	0.180	0.220	4.60	5.60	
I	0.181	0.205	4.60	5.20	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

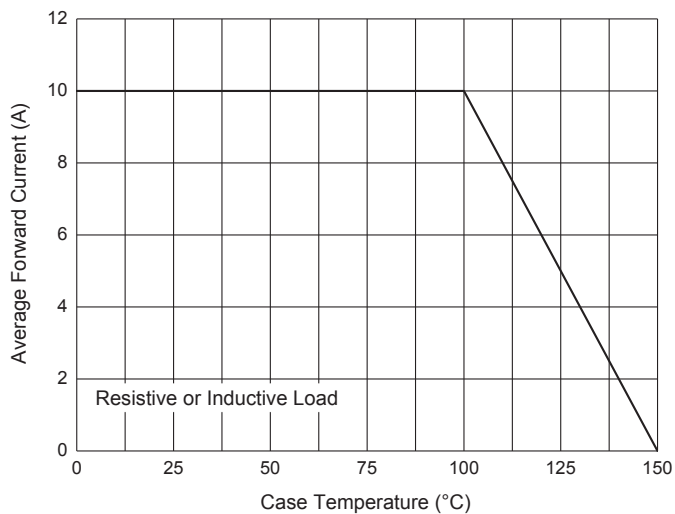


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

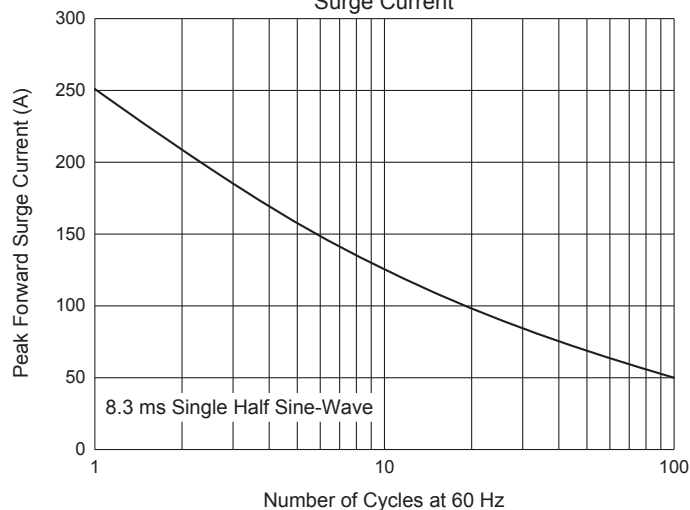


Fig. 3 - Typical Instantaneous Forward Characteristics

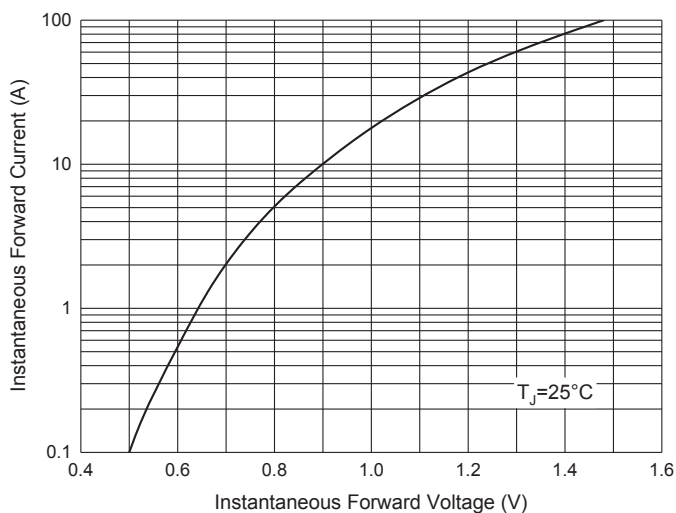
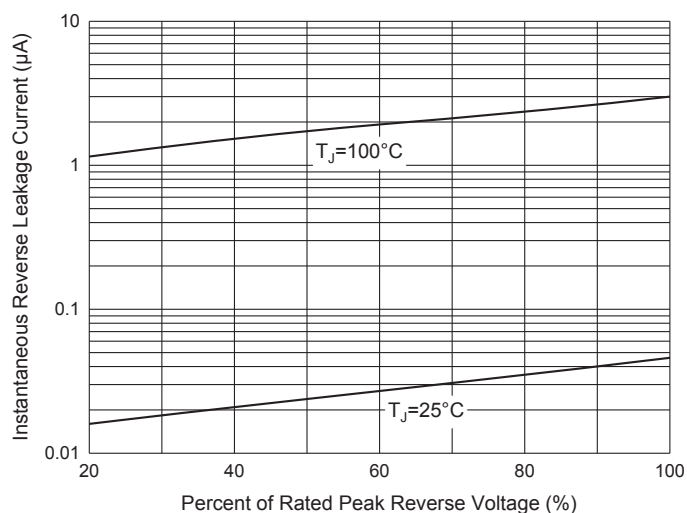


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk: 400pcs/Box

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