



**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
- Solder Dip 275 °C Max. 7s, Per JESD 22-B106

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 2): 18°C/W Junction to Ambient
- Typical Thermal Resistance(Note 3): 3.0°C/W Junction to Case
- Maximum Mounting Torque: 10 cm-kg (8.8 inches-lbs)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS801	RS801	50V	35V	50V
RS802	RS802	100V	70V	100V
RS803	RS803	200V	140V	200V
RS804	RS804	400V	280V	400V
RS805	RS805	600V	420V	600V
RS806	RS806	800V	560V	800V
RS807	RS807	1000V	700V	1000V

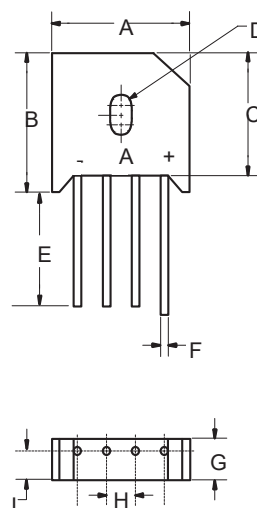
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Average Forward Current	$I_{F(AV)}$	8.0A 6.0A	$T_C = 90^\circ C$ $T_A = 45^\circ C$
Peak Forward Surge Current	$I_{FSM}$	300A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 8A$ ; $T_J = 25^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10µA 1mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$

- Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.  
 2. Units Mounted in Free Air, No Heatsink, P.C.B 0.375"(9.5mm) Lead Length with 0.5 × 0.5"(12 12mm) Copper Pads.  
 3. Units Mounted on a 3.0 × 3.0 0.11"(7.5 × 7.5 × 0.3cm) Al.Plate Heatsink.

**8 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

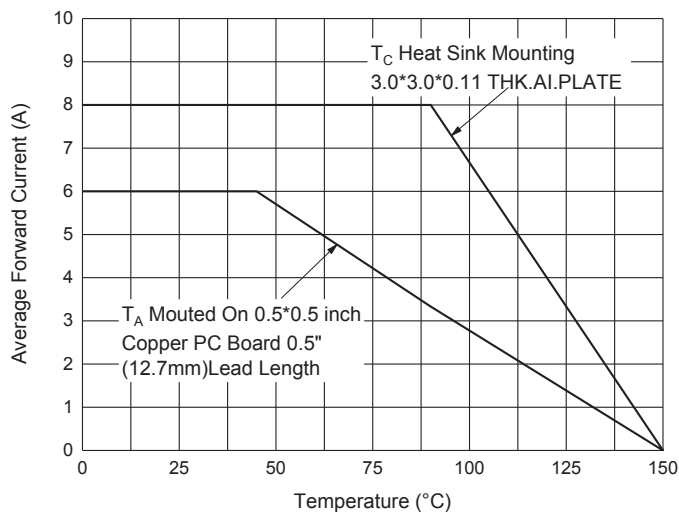


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

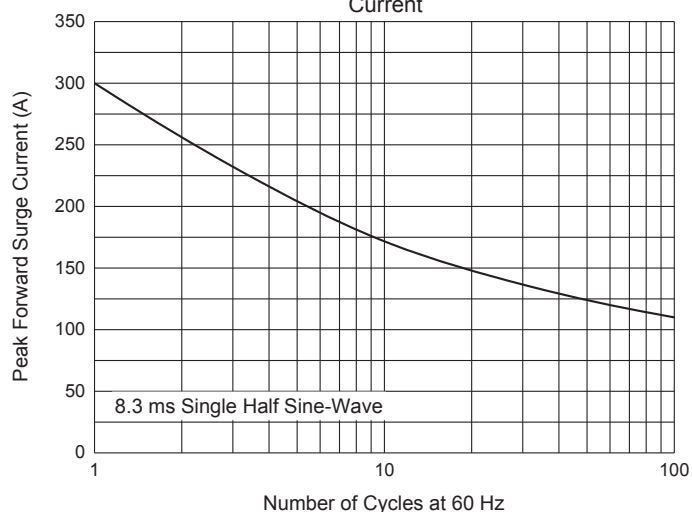


Fig. 3 - Typical Instantaneous Forward Characteristics

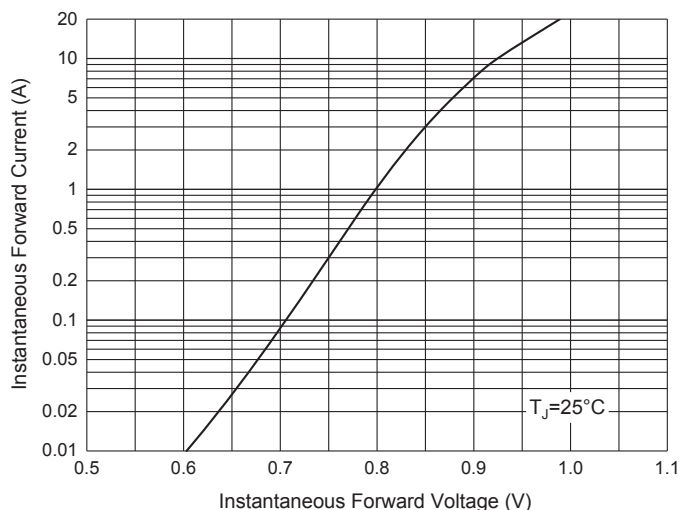


Fig. 4 - Typical Reverse Leakage Characteristics

