	E502650

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Ideal For Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- High Case Dielectric Strength of 1500 VRMS

4 Amp Single Phase Glass Passivated 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
- Thermal Resistance(Note 2): 5.0°C/W Junction to Case
- Thermal Resistance(Note 2): 2.4°C/W Junction to Lead

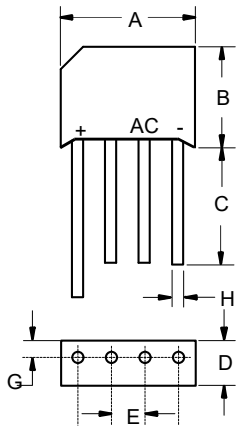
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS401GL	RS401GL	50V	35V	50V
RS402GL	RS402GL	100V	70V	100V
RS403GL	RS403GL	200V	140V	200V
RS404GL	RS404GL	400V	280V	400V
RS405GL	RS405GL	600V	420V	600V
RS406GL	RS406GL	800V	560V	800V
RS407GL	RS407GL	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	T_A = 50°C
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	I_{FM} = 4.0A T_J = 25°C (Note 3)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5μA 100μA	T_J = 25°C T_J = 125°C

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Unit mount on P.C.B. 0.6" x 0.6" (16mmx16mm) Copper pads
3. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

RS-4L



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.728	0.768	18.50	19.50	
B	0.600	0.640	15.20	16.30	
C	0.630	---	16.00	---	
D	0.217	0.256	5.50	6.50	
E	0.180	0.220	4.60	5.60	
G	---	0.083	---	2.10	
H	0.048	0.052	1.20	1.30	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

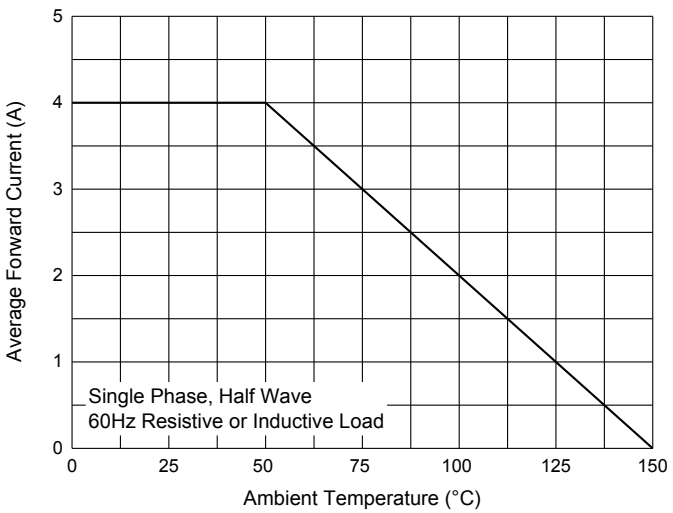


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

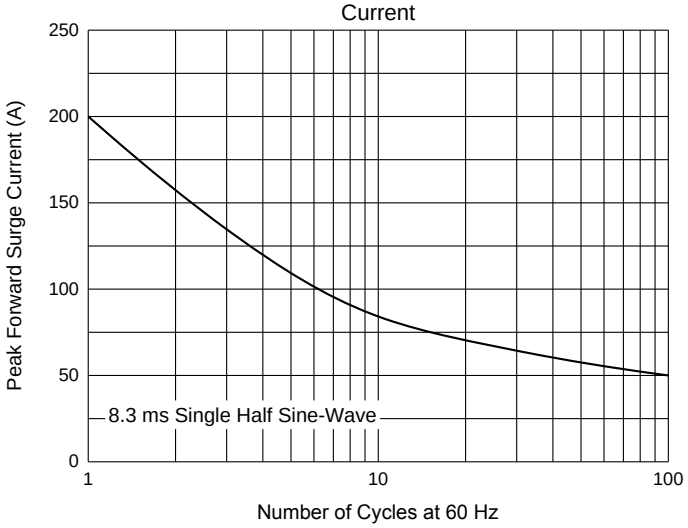


Fig. 3 - Typical Reverse Leakage Characteristics

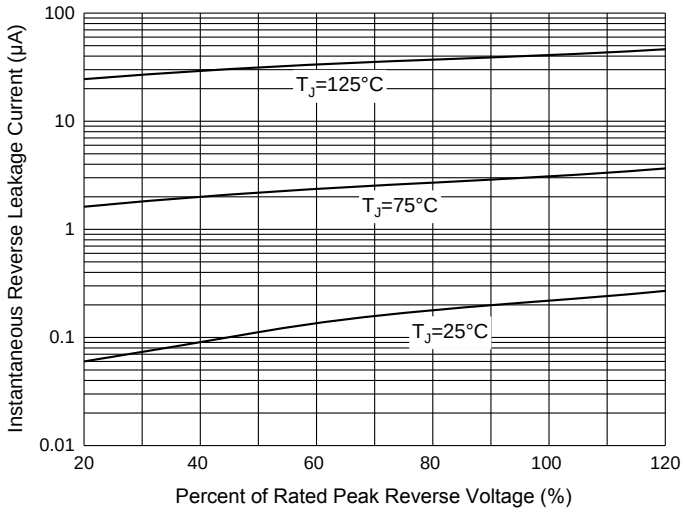
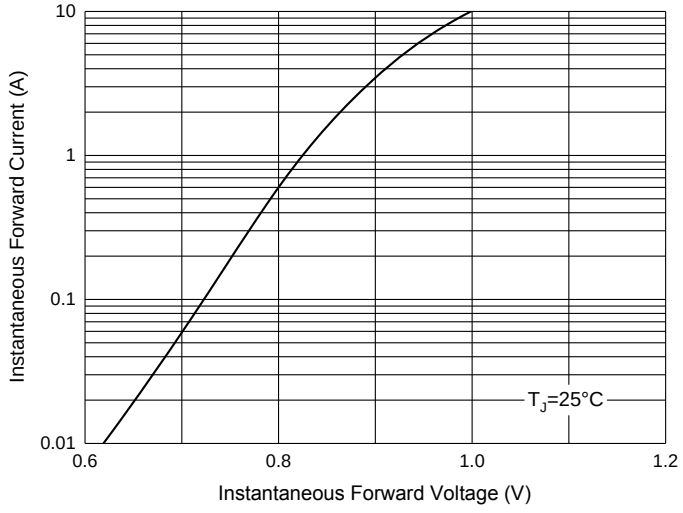


Fig. 4 - Typical Instantaneous Forward Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk;2K/Ctn

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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