



**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

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 8.6°C/W Junction to Ambient
- Typical Thermal Resistance: 3.1°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RS601	RS601	50V	35V	50V
RS602	RS602	100V	70V	100V
RS603	RS603	200V	140V	200V
RS604	RS604	400V	280V	400V
RS605	RS605	600V	420V	600V
RS606	RS606	800V	560V	800V
RS607	RS607	1000V	700V	1000V

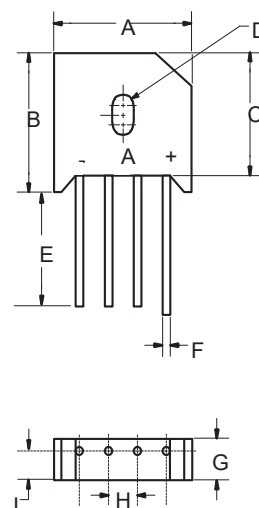
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 65^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM} = 3.0A$ ; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10μA 1mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

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

# 6 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

**RS-6**



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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 X 0.23L		3.80 X 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

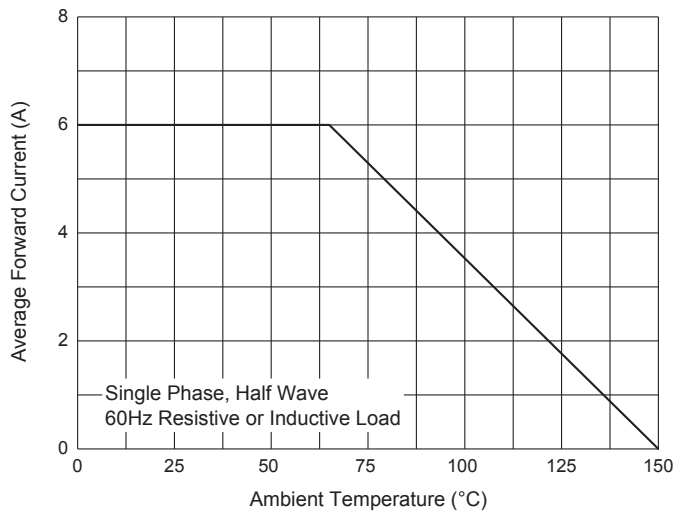


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

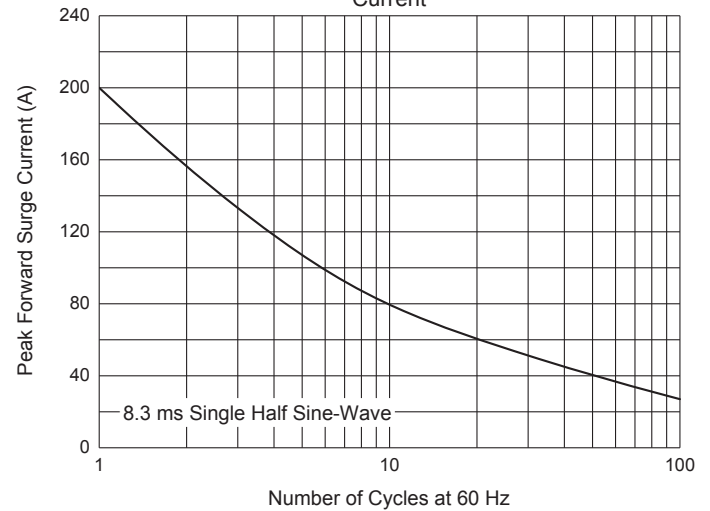


Fig. 3 - Typical Instantaneous Forward Characteristics

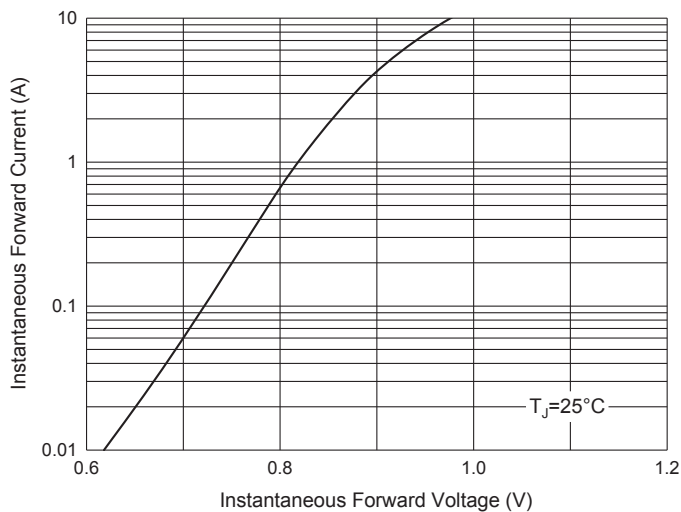
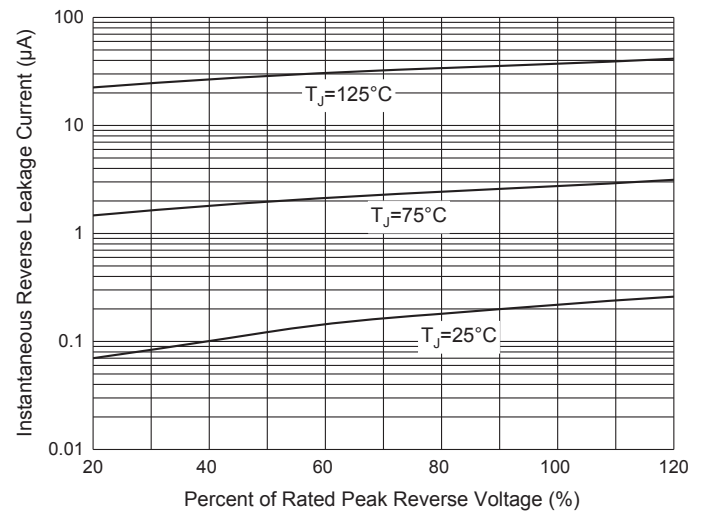


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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