	E502650

6 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- Low Forward Voltage and Any Mounting Position
- Surge Overload Rating Of 150 Amps
- Silver Plated Copper Leads
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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)

Maximum Ratings

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

Mechanical Data

- Mounting Torque: 4.5in-lbs Maximum
- Mounting Hole: #6 Screw

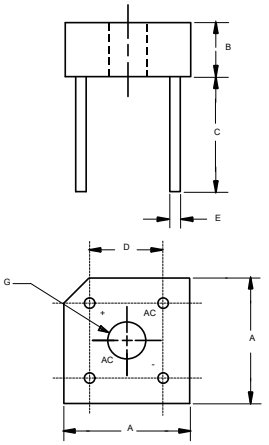
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB605	PB605	50V	35V	50V
PB61	PB61	100V	70V	100V
PB62	PB62	200V	140V	200V
PB64	PB64	400V	280V	400V
PB66	PB66	600V	420V	600V
PB68	PB68	800V	560V	800V
PB610	PB610	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 50°C$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.0V	$I_F = 3.0A$ $T_J = 25°C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10μA 1mA	$T_J = 25°C$ $T_J = 100°C$

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

PB-6



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.578	0.619	14.69	15.71	2PL
B	0.230	0.270	5.84	6.86	
C	0.752	---	19.10	---	
D	0.405	0.445	10.29	11.31	2PL
E	0.038	0.042	0.97	1.07	4PL/TY
G	0.145	---	3.70	---	Φ

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

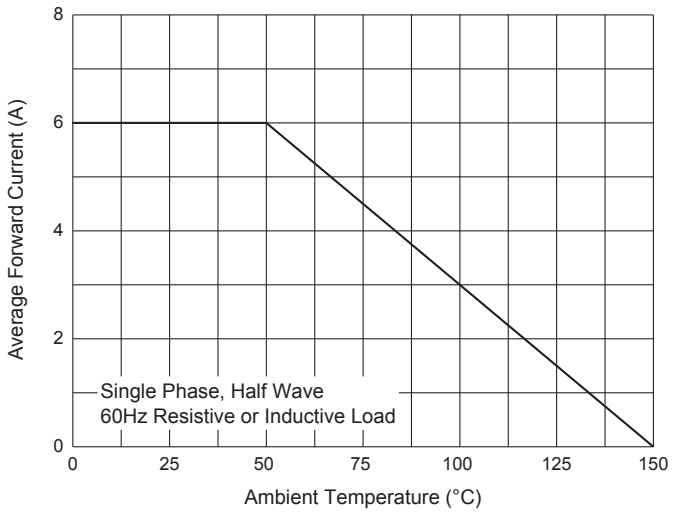


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

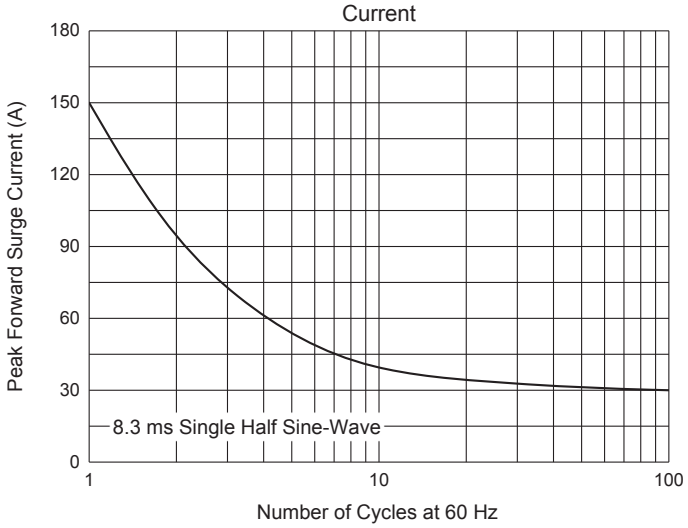


Fig. 3 - Typical Instantaneous Forward Characteristics

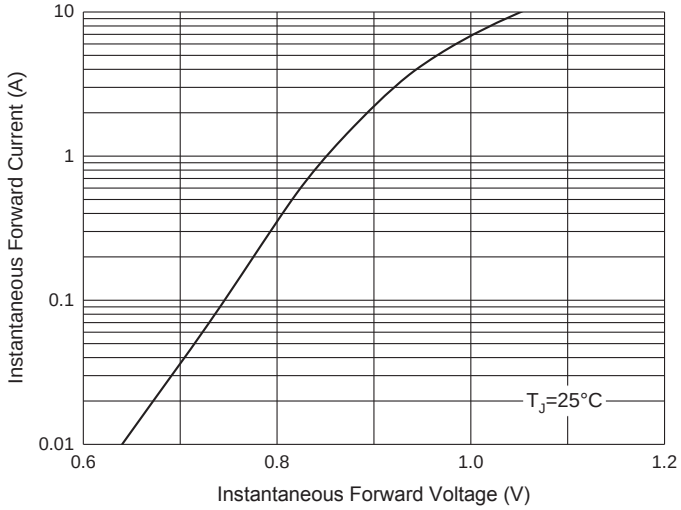
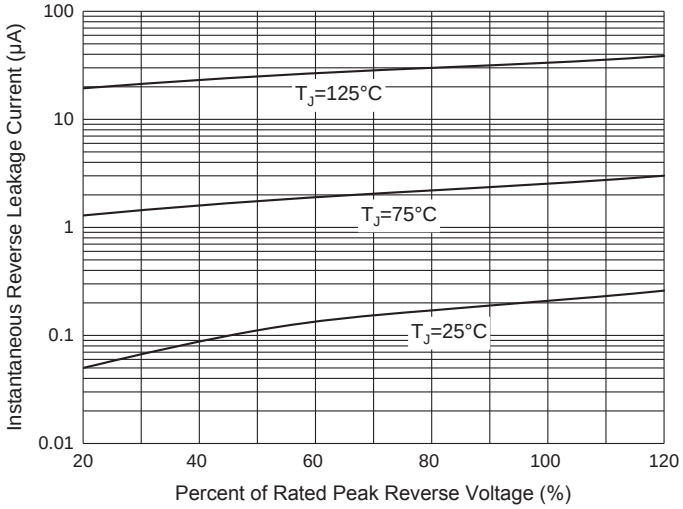


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk;1.6k/Ctn

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

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