

FU E502650

Features

- Halogen Free. "Green" Device (Note 1)
- · High Current Capability
- Superior Thermal Conductivity
- Lead Free Finish/RoHS Compliant (Note 2) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note2): 0.8°C/W Junction to Case
- Typical Thermal Resistance: 18°C/W Junction to Ambient

Mechanical Data

• Mounting Torque: 5in-lbs





MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB25005	PB25005	50V	35V	50V
PB2501	PB2501	100V	70V	100V
PB2502	PB2502	200V	140V	200V
PB2504	PB2504	400V	280V	400V
PB2506	PB2506	600V	420V	600V
PB2508	PB2508	800V	560V	800V
PB2510	PB2510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

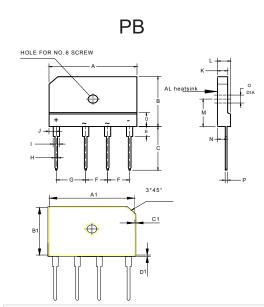
I _{F(AV)}	25A	T _C = 100°C
I _{FSM}	350A	8.3ms, Half Sine
V _F	1.0V 0.9V	I _{FM} = 12.5A;T _J = 25°C I _{FM} = 12.5A;T _J = 125°C
I _R	5μΑ 250μΑ	T _J = 25°C T _J = 125°C
Vdis	2.5KV	Terminals to Case, AC 1 Minute
l²t	508 A ² s	1ms <t<8.3ms< td=""></t<8.3ms<>
	I _{FSM} V _F I _R Vdis	I _{FSM} 350A V _F 1.0V 0.9V I _R 5μA 250μA Vdis 2.5KV

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, \acute{A} <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

G High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

HUnit Mounted on 100*50*2mm Aluminum Plate Heatsink.

25 Amp Bridge Rectifier 50 - 1000 Volts



	DIMENSIONS				
DIM	INCHES		MM		NOTE
Dilvi	MIN	MAX	MIN	MAX	NOIL
Α	1.169	1.193	29.70	30.30	
В	0.776	0.799	19.70	20.30	
С	0.669	0.709	17.00	18.00	
D	0.189	0.228	4.80	5.80	
E	0.150	0.165	3.80	4.20	
F	0.287	0.303	7.30	7.70	
G	0.386	0.402	9.80	10.20	
Н	0.035	0.043	0.90	1.10	
I	0.079	0.094	2.00	2.40	
J	0.091	0.106	2.30	2.70	
K	0.134	0.150	3.40	3.80	
L	0.173	0.189	4.40	4.80	
М	0.425	0.441	10.80	11.20	
N	0.122	0.146	3.10	3.70	
0	0.122	0.134	3.10	3.40	
Р	0.024	0.031	0.60	0.80	
A1	1.136	1.144	28.85	29.05	
B1	0.742	0.750	18.85	19.05	
C1	0.016	0.024	0.40	0.60	
D1	0.016	0.024	0.40	0.60	

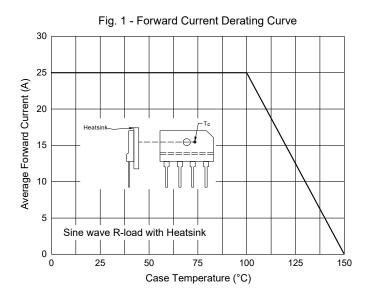


Instantaneous Forward Current (A)

0.4

0.5

Curve Characteristics



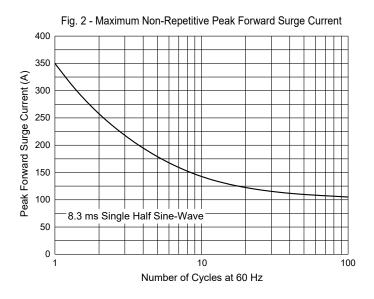
10 T_J=25°C T_J=75°C T_J=125°C

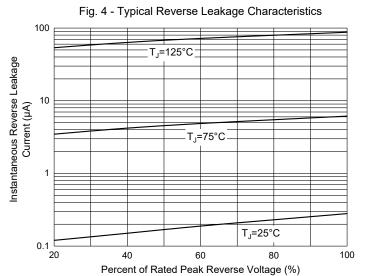
Instantaneous Forward Voltage (V)

1.1

1.2

Fig. 2 - Typical Instantaneous Forward Characteristics







Ordering Information

Device	Packing
Part Number-BP	Tube:15pcs/Tube, 750pcs/Box, 1500pcs/Ctn;

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