

	E502650
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Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- 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
- Thermal Resistance: 10 °C/W Junction To Case
- Thermal Resistance: 47 °C/W Junction To Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP4005G	KBP4005G	50V	35V	50V
KBP401G	KBP401G	100V	70V	100V
KBP402G	KBP402G	200V	140V	200V
KBP404G	KBP404G	400V	280V	400V
KBP406G	KBP406G	600V	420V	600V
KBP408G	KBP408G	800V	560V	800V
KBP410G	KBP410G	1000V	700V	1000V

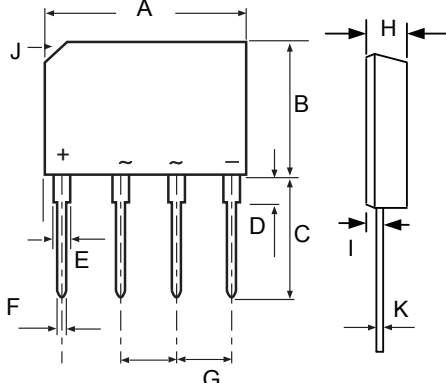
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 70^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	110A	8.3ms, Half Sine
Maximum Forward Voltage Drop	V_F	1.0V	$I_{FM} = 2.0A ; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA	$T_J = 25^\circ\text{C}$
Rating for Fusing	I^2t	50 A ² s	$t < 8.3\text{ms}$
Typical Junction Capacitance	C_J	35pF	Measured at 1.0MHz, $V_R = 4.0V$

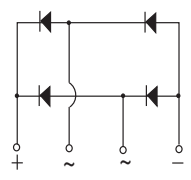
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a
 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**4 Amp
Glass Passivated
Bridge Rectifier
50 to 1000 Volts**

GBP



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.561	0.580	14.25	14.75	
B	0.406	0.417	10.10	10.60	
C	0.561	0.581	14.25	14.73	
D	0.071	0.087	1.80	2.20	
E	0.046	0.056	1.17	1.42	
F	0.030	0.034	0.76	0.86	
G	0.140	0.160	3.56	4.06	
H	0.131	0.161	3.35	4.10	
I	0.031	0.043	0.80	1.10	
J	0.106 X 45°		2.70 X 45°		
K	0.012	0.025	0.30	0.64	



Case Type

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

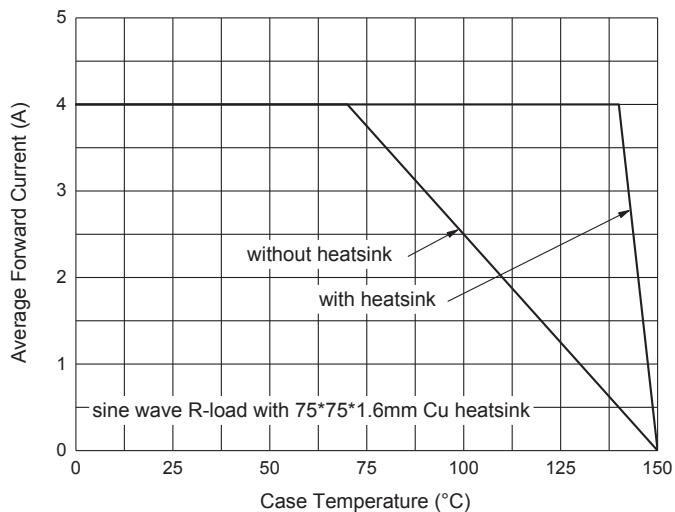


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

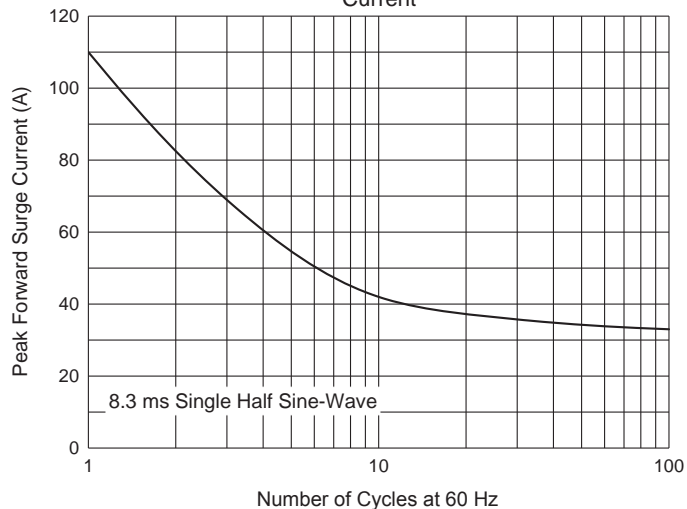


Fig. 3 - Typical Instantaneous Forward Characteristics

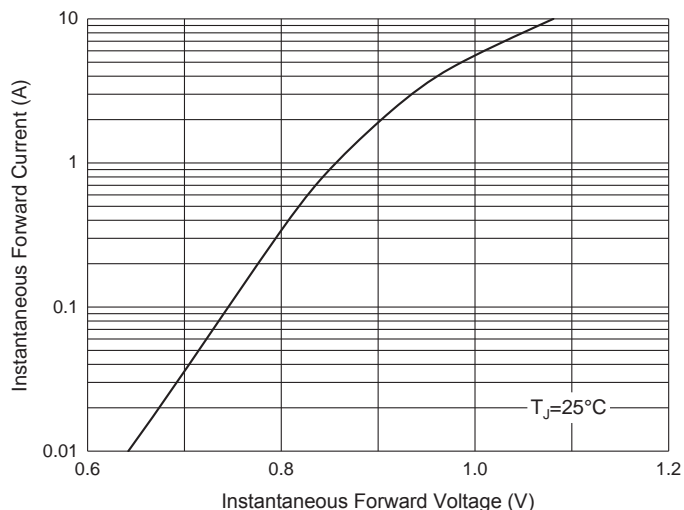


Fig. 4 - Typical Reverse Leakage Characteristics

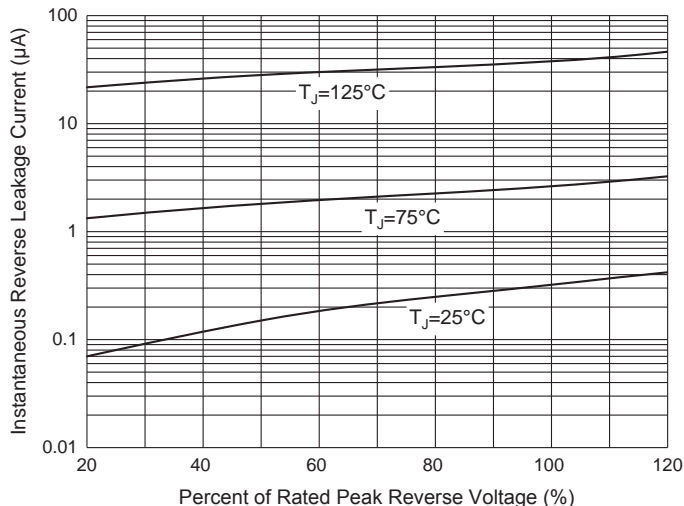
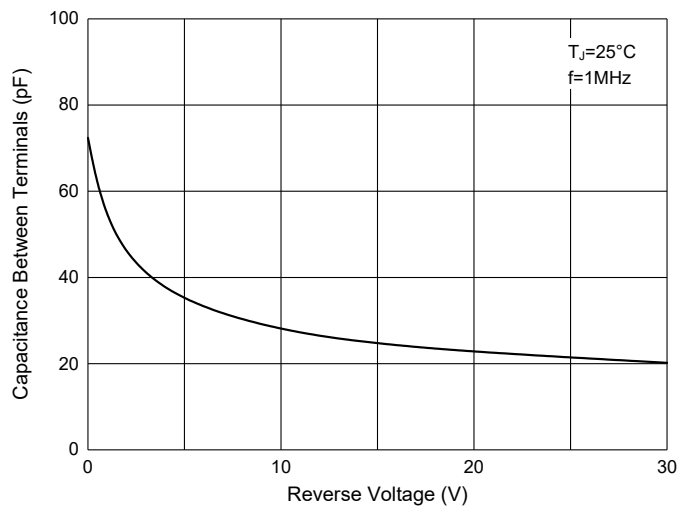


Fig. 5 - Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk:35pcs/Tube,2100pcs/Box,4200pcs/Carton

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