

	<b>E502650</b>
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**Features**

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note 2) ("P"Suffix Designates Compliant. See Ordering Information)
- High Surge Forward Current Capability
- 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: 5.8°C/W Junction to Case(Note 3)
- Thermal Resistance: 35°C/W Junction to Ambient

**Mechanical Data**

- Mounting Torque: 0.5 N•m

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJA4005	KBJA4005	50V	35V	50V
KBJA401	KBJA401	100V	70V	100V
KBJA402	KBJA402	200V	140V	200V
KBJA404	KBJA404	400V	280V	400V
KBJA406	KBJA406	600V	420V	600V
KBJA408	KBJA408	800V	560V	800V
KBJA410	KBJA410	1000V	700V	1000V

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

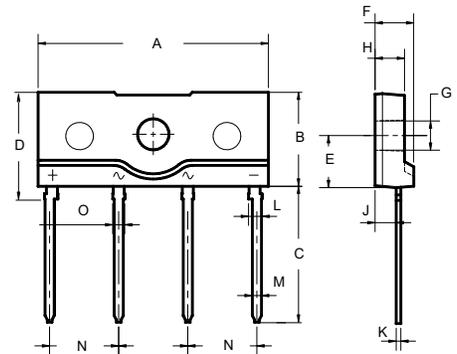
Average Forward Current	$I_{F(AV)}$	4.0A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	120A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.05V	$I_{FM} = 2.0A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10 $\mu$ A	$T_J = 25^\circ\text{C}$
$I^2t$ Rating for Fusing	$I^2t$	60A <sup>2</sup> S	(1ms < t < 8.3ms)

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.
3. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

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

**JB**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.972	0.996	24.70	25.30	
B	0.394	0.417	10.00	10.60	
C	0.575	0.598	14.60	15.20	
D	0.449	0.472	11.40	12.00	
E	0.213	0.236	5.40	6.00	
F	0.154	0.177	3.90	4.50	
G	0.122	0.134	3.10	3.40	
H	0.114	0.138	2.90	3.90	
J	0.079	0.102	2.00	2.60	
K	0.012	0.024	0.40	0.60	
L	0.053	0.061	1.35	1.55	
M	0.035	0.043	0.90	1.10	
N	0.287	0.303	7.30	7.70	
O	0.047	0.055	1.20	1.40	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

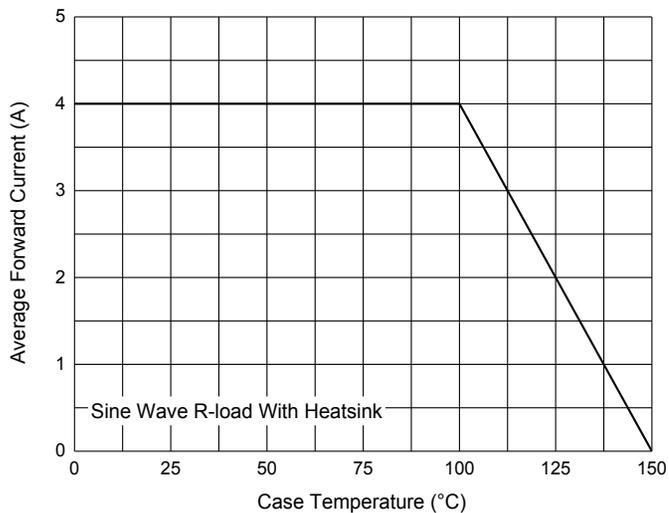


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

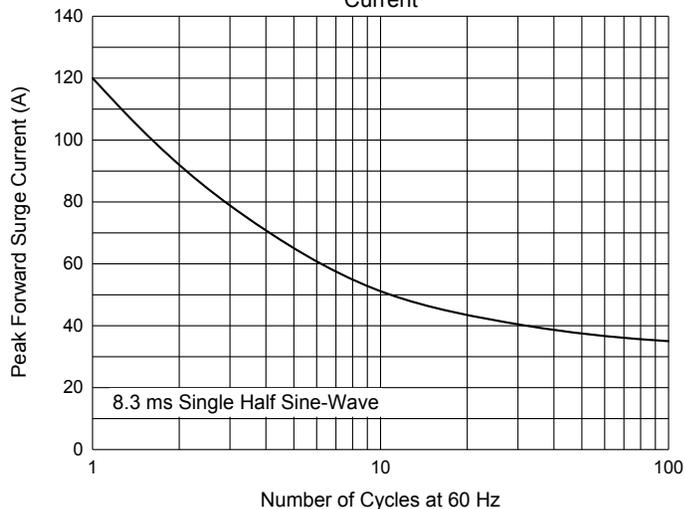


Fig. 3 - Typical Instantaneous Forward Characteristics

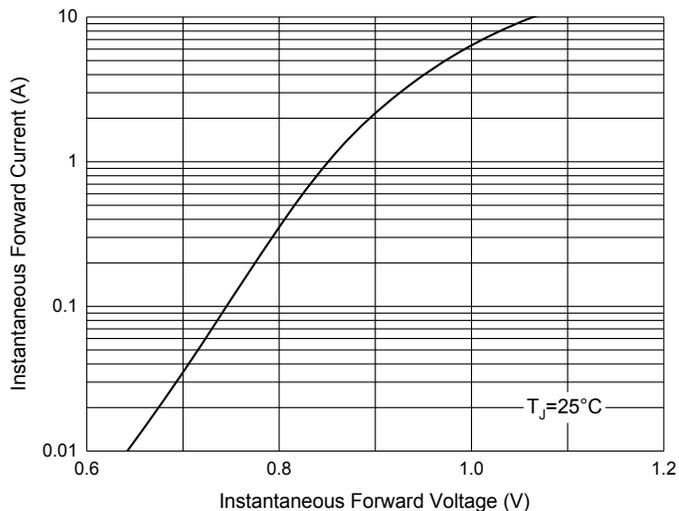
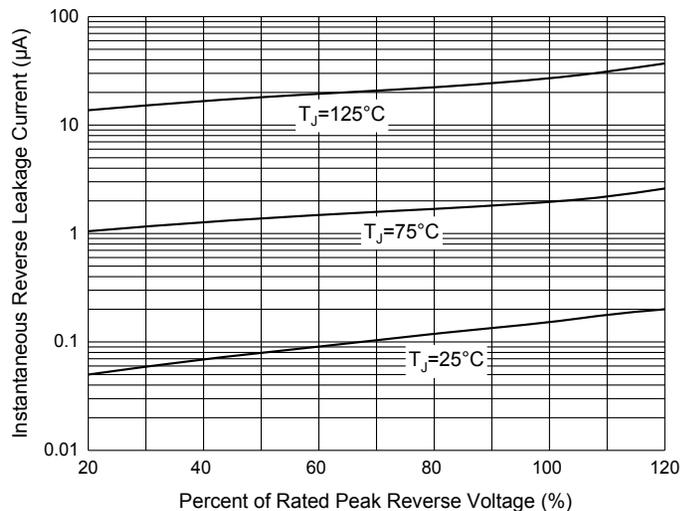


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-BP	Bulk:20pcs/Tube,900pcs/Box,1800pcs/Carton

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