



Micro Commercial Components

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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

2KBP005M THRU 2KBP10M

Features

- UL Recognized File # E165989
- Marking : type number
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Glass Passivated Die Construction
- Ideal for Printed Circuit Boards

Maximum Ratings

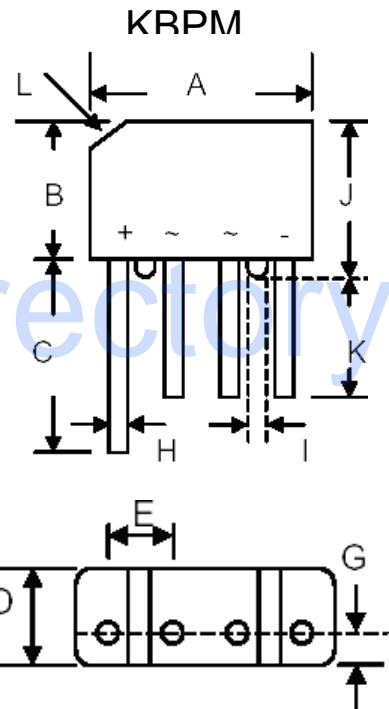
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- Operating Temperature: -55°C to +165°C
- Storage Temperature: -55°C to +165°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
2KBP005M	50V	35V	50V
2KBP01M	100V	70V	100V
2KBP02M	200V	140V	200V
2KBP04M	400V	280V	400V
2KBP06M	600V	420V	600V
2KBP08M	800V	560V	800V
2KBP10M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_a = 40^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	60A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_F = 1.5\text{A per element}; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA 0.5mA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical Junction Capacitance per element	C_j	25PF	Measured at 1MHZ, VR=4V(DC)
Typical Thermal Resistance	Rthja	30 °C/W	

2.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.559	.60	14.22	15.24
B	.42	.46	10.67	11.68
C	.60	---	15.2	---
D	.179	.20	4.57	5.08
E	.142	.161	3.60	4.10
G	.085	.105	2.16	2.67
H	.03	.034	0.76	0.86
I	.06	---	1.52	---
J	.46	.50	11.68	12.70
K	.50	---	12.7	---
L	3.2*45° Typ.		3.2*45° Typ.	

- Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
 2. Leads maintained at ambient temp. at a distance of 9.5mm from the case
 3. Mounted on PC board with 12mm² copper pad

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

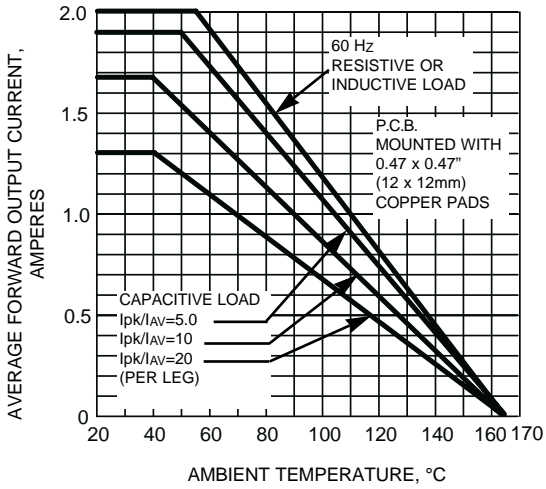


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

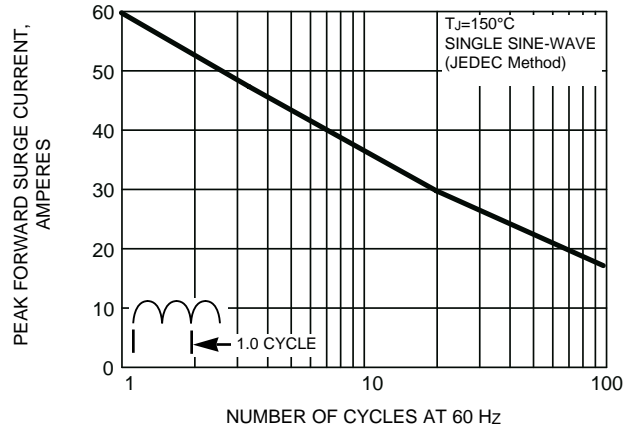


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER LEG

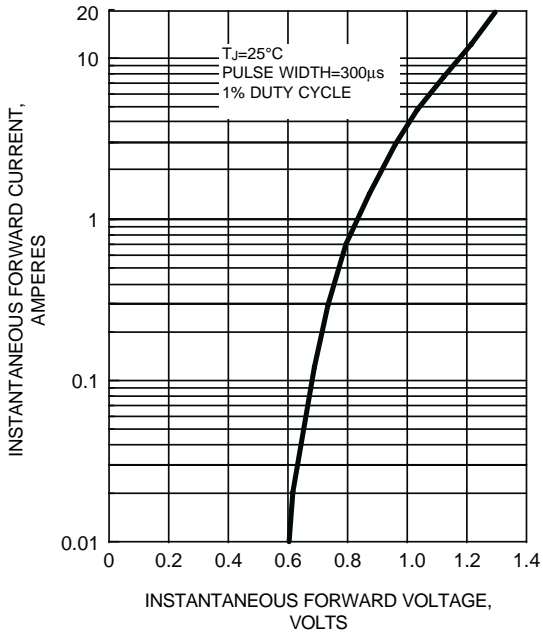


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

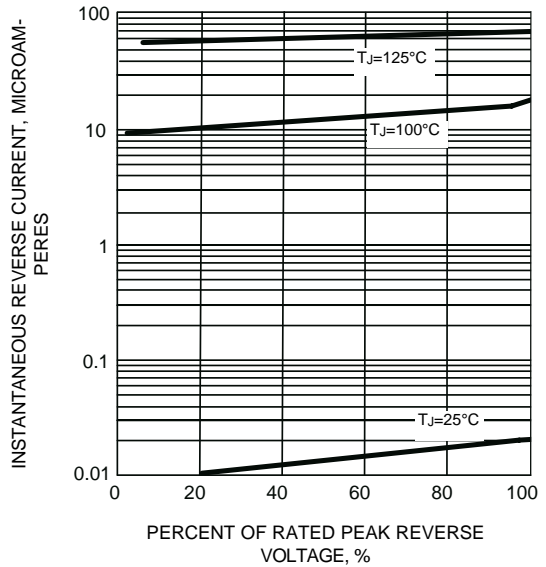
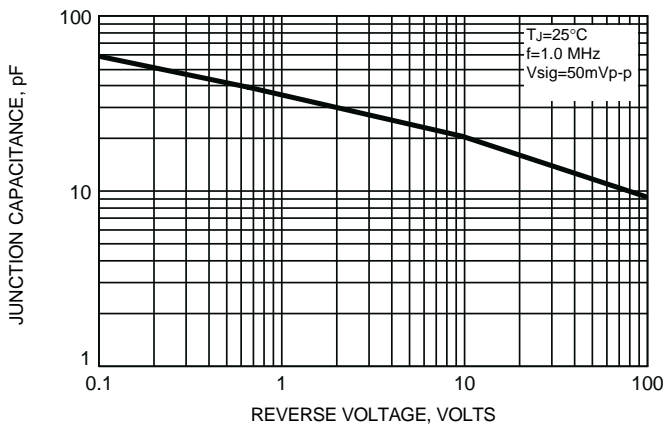


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG





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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;600pcs/Box

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