



Micro Commercial Components



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Features

- UL Recognized File # E165989
- # Glass Passivated Die Construction
- # Ideal for Printed Circuit Boards
- # Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- # Thermal Resistance: Junction to case: $10^{\circ}\text{C}/\text{W}$ typical
- # Operating Temperature: -55°C to $+150^{\circ}\text{C}$
- # Storage Temperature: -55°C to $+150^{\circ}\text{C}$

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP2005	50V	35V	50V
KBP201	100V	70V	100V
KBP202	200V	140V	200V
KBP204	400V	280V	400V
KBP206	600V	420V	600V
KBP208	800V	560V	800V
KBP210	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_c = 105^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	60A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_F = 2.0\text{A}$ per element
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$5\sigma\text{A}$ 0.5mA	$T_a = 25^{\circ}\text{C}$ $T_a = 125^{\circ}\text{C}$
Typical Junction Capacitance Per Element	C_J	25pF	4V Reverse DC 1MHz

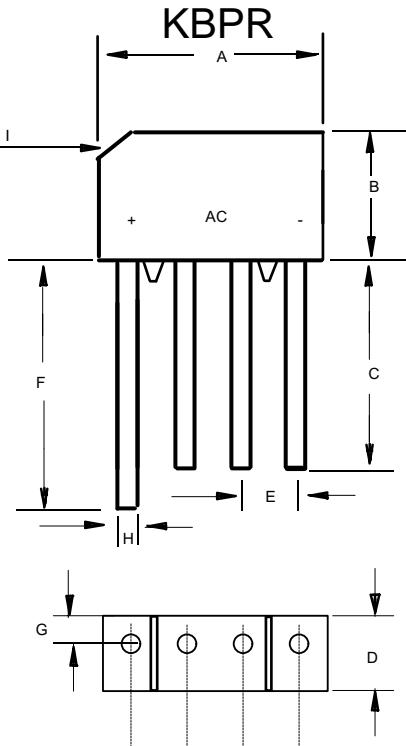
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

KBP2005

THRU

KBP210

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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.600	14.32	15.24	
B	.420	.460	10.70	11.70	
C	.500	---	12.70	15.50	
D	.132	.144	3.35	3.65	
E	.140	.160	3.60	4.10	
F	.600	---	15.24	19.00	
G	.035	.047	0.90	1.20	
H	.028	.034	0.70	0.90	
I	0.12X45		3.0X45		

KBP2005~KBP210

•M•C•C•

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FIG. 1 - DERATING CURVE OUTPUT
RECTIFIED CURRENT

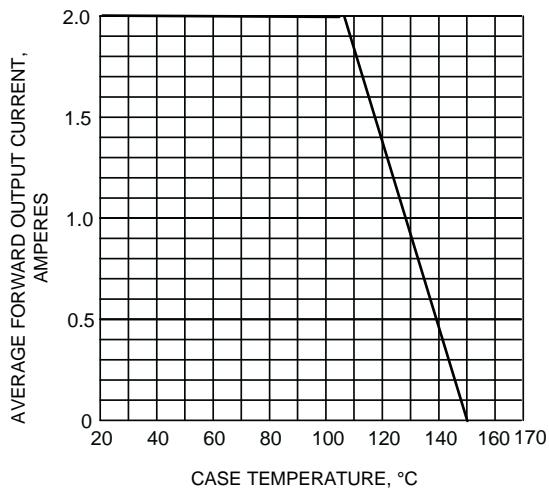


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG

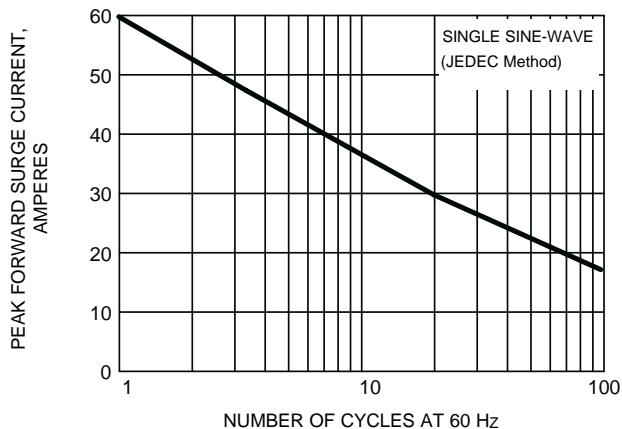


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS
PER LEG

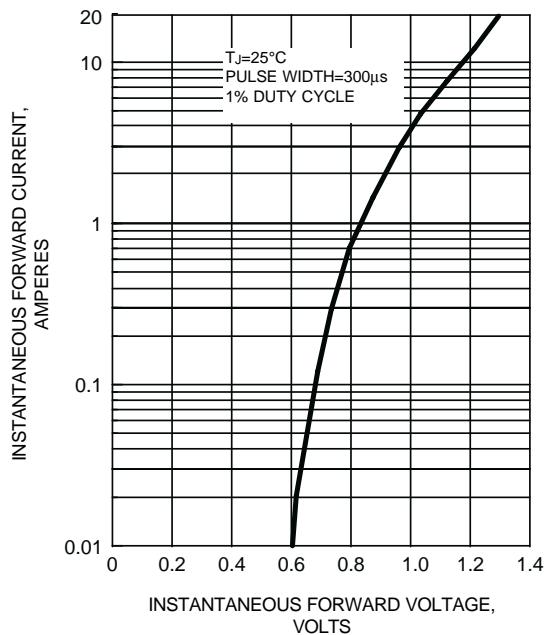


FIG. 4 - TYPICAL REVERSE LEAKAGE
CHARACTERISTICS PER LEG

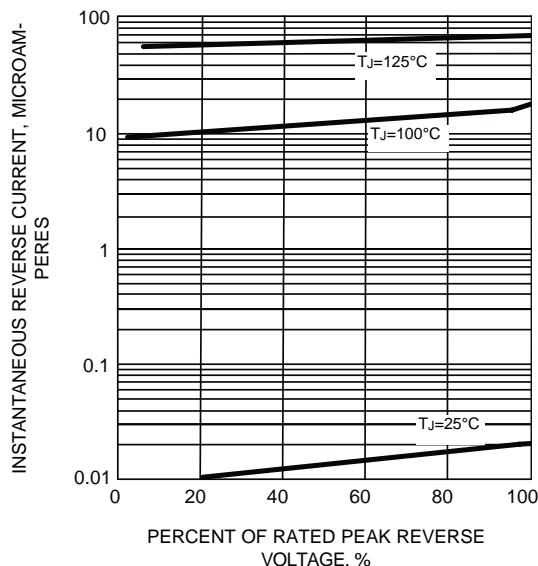
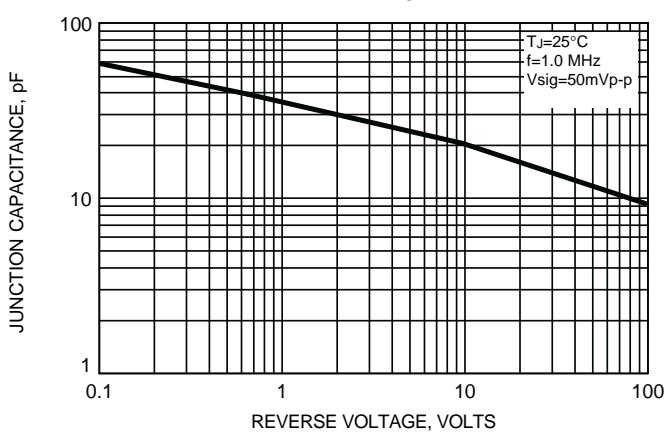


FIG. 5 - TYPICAL JUNCTION CAPACITANCE
PER LEG



Ordering Information :

Device	Packing
Part Number-BP	Bulk: 5Kpcs/Carton

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