

Micro Commercial Components



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Features

- UL Recognized File # E165989
- Marking : type number
- Glass Passivated Die Construction
- High Surge Current Capabilit
- Case Material: Molded Plastic.UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 3)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Operating Temperature: -55°C to +150°C

•	Storage	l emper	ature:	-55°C	to +	·150°C	

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

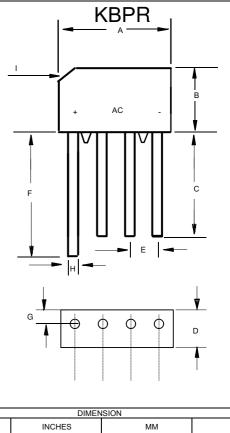
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.5A	T _a = 50°C Note1
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.1V	$I_F = 1.5A \text{ per}$ element; $T_J = 25^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 0.5mA	T _a = 25°C T _a = 100°C
Typical Junction Capacitance per element	Cj	15PF	Measured at 1MHZ, VR=4V(DC)
Typical Thermal Resistance	Rthja	28 K/W	Note2

THRU KBP10M

KBP005M

1.5 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts



	INCHES					
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.560	.600	14.32	15.24		
В	.420	.460	10.70	11.70		
С	.500		12.70			
D	.132	.144	3.35	3.65		
E	.140	.160	3.60	4.10		
F	.600		15.24			
G	.035	.047	0.90	1.20		
Н	.028	.034	0.76	0.86		
I	0.12X45		3.0X45			

Note: 1. Leads maintained at ambient temp. at a distance of 9.5mm from the case

2. Mounted on PC board with 12mm² copper pad

3. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

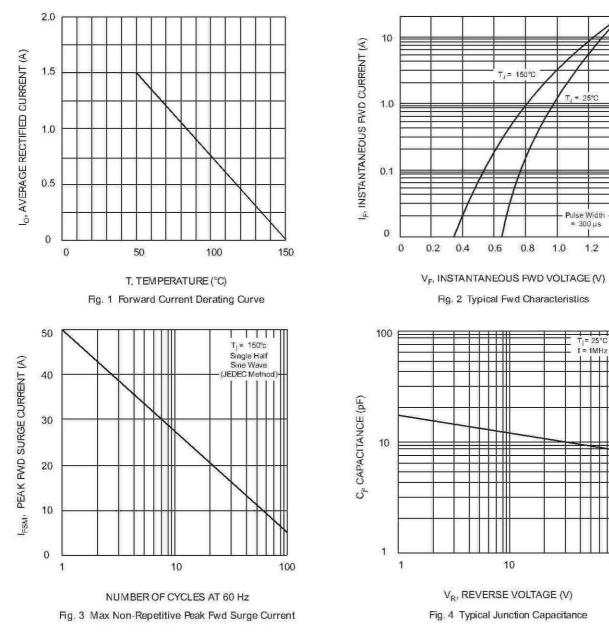
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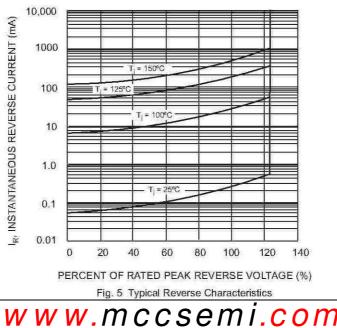
KBP005M~KBP10M



1.4

100





Revision: B

2 of 3

201 5/08/31



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;5Kpcs/Ctn

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