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# KBP005 THRU KBP10

## Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- Ideal for Printed Circuit Boards
- High Surge Current Capability

## Maximum Ratings

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBP005	50V	35V	50V
KBP01	100V	70V	100V
KBP02	200V	140V	200V
KBP04	400V	280V	400V
KBP06	600V	420V	600V
KBP08	800V	560V	800V
KBP10	1000V	700V	1000V

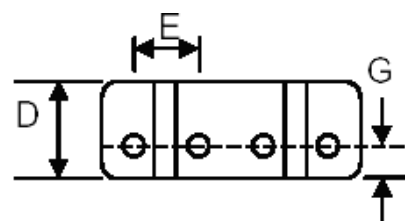
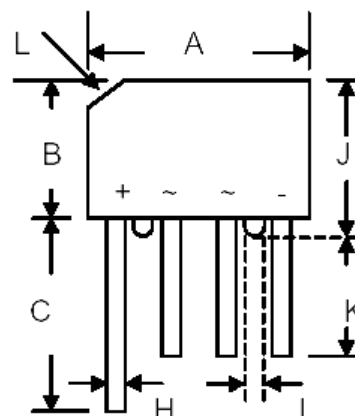
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_a = 50^\circ\text{C}$ Note1
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.1V	$I_F = 1.5\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$ 0.5mA	$T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$
Typical Junction Capacitance per element	$C_j$	15PF	Measured at 1MHZ, VR=4V(DC)
Typical Thermal Resistance	Rthja	28 K/W	Note2

Note: 1. Leads maintained at ambient temp. at a distance of 9.5mm from the case  
2. Mounted on PC board with 12mm<sup>2</sup> copper pad

## 1.0 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

KBP



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	.168	.20	4.30	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.	

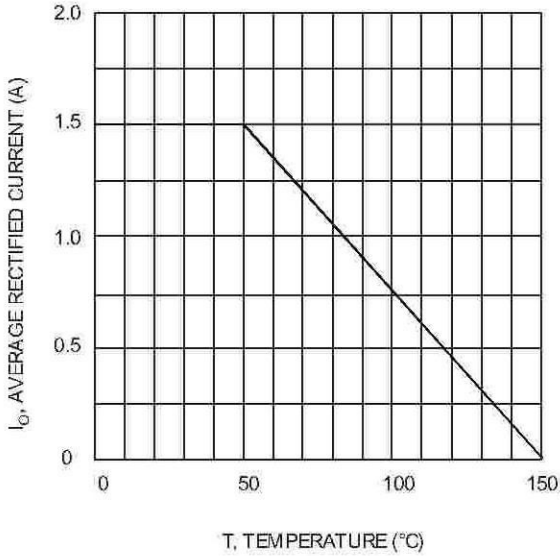


Fig. 1 Forward Current Derating Curve

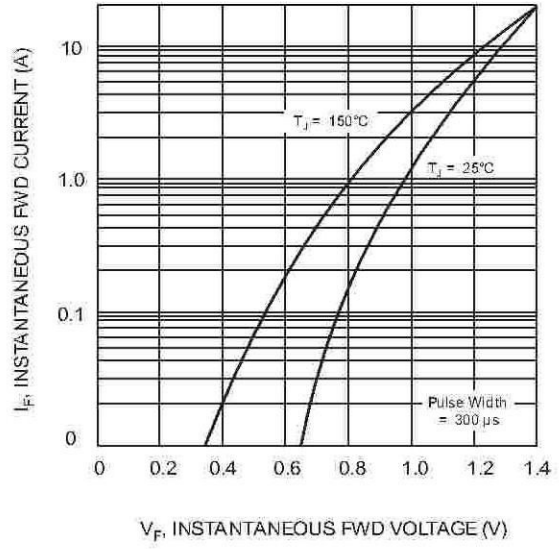


Fig. 2 Typical Fwd Characteristics

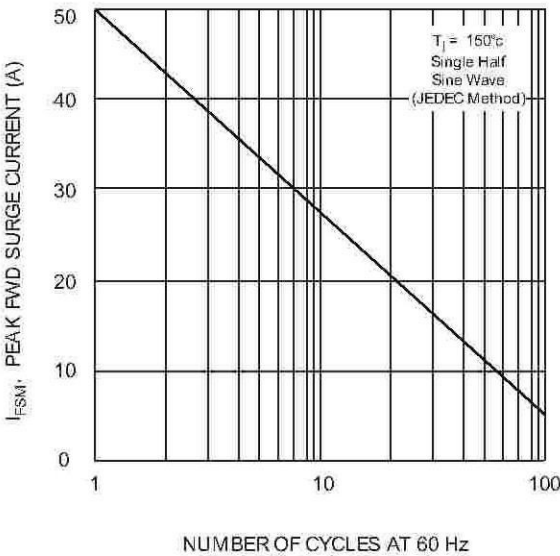


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

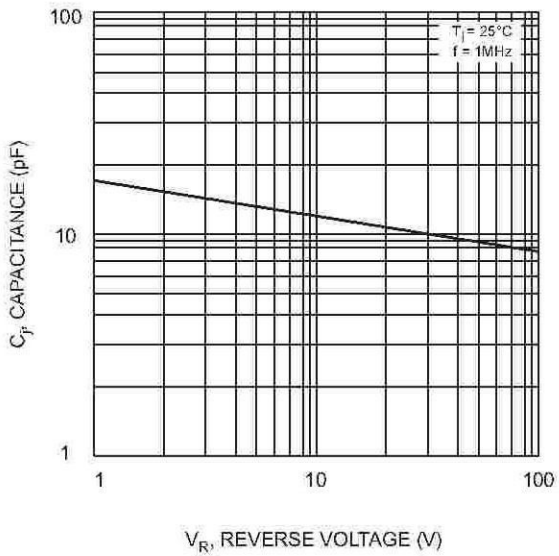


Fig. 4 Typical Junction Capacitance

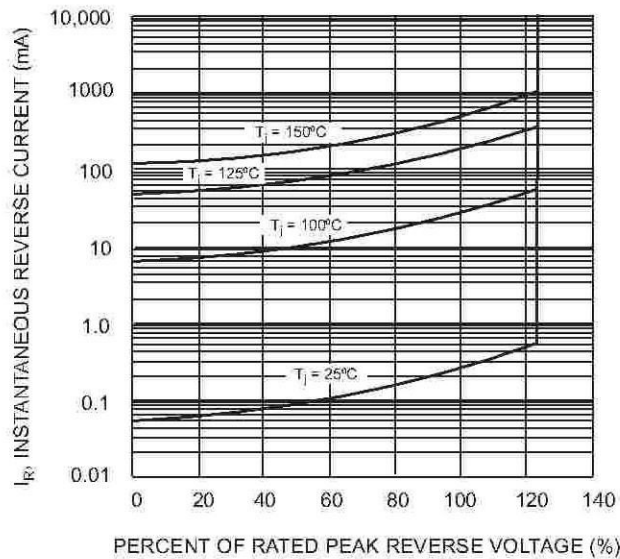


Fig. 5 Typical Reverse Characteristics