

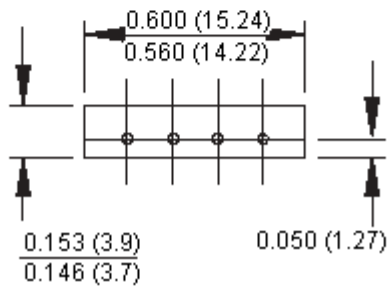
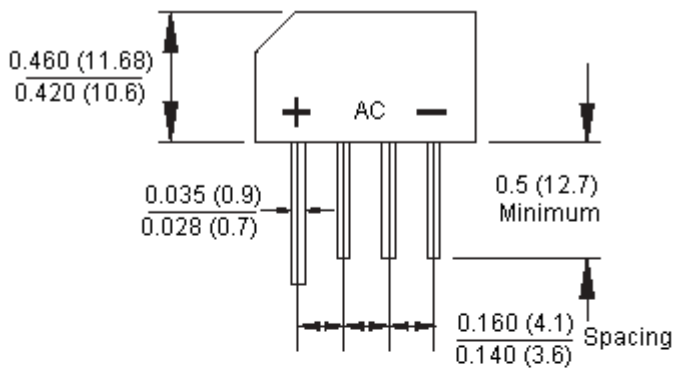


## Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs (2.3Kg) tension.
- Small size, simple installation.
- Leads solderable per MIL-STD-202, Method 208.



## KBP



Dimensions : Inches (Millimetres)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

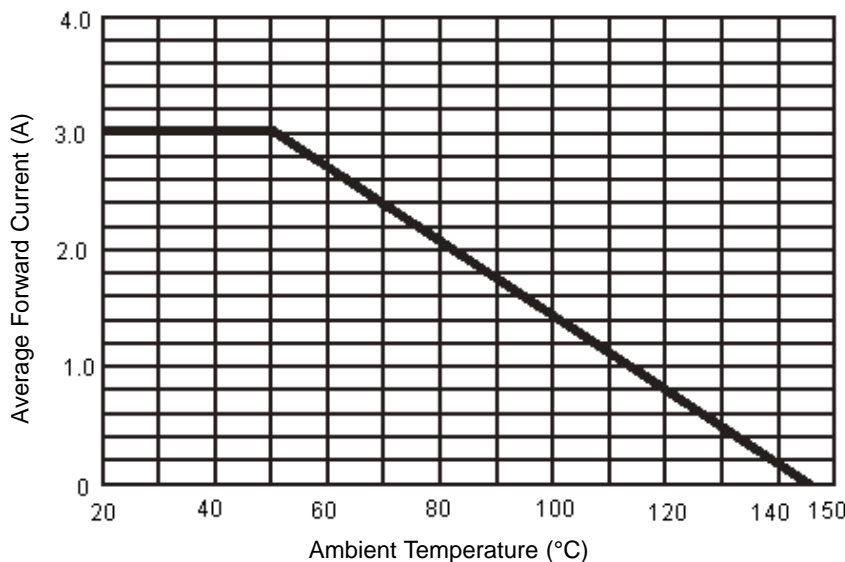
For capacitive load, derate current by 20%.

Type Number	Symbol	KBP 301G	KBP 303G	KBP 305G	KBP 307G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	200	600	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	140	420	700	
Maximum DC Blocking Voltage	$V_{DC}$	50	200	600	1000	
Maximum Average Forward Rectified Current at $T_A = 50^\circ\text{C}$	$I_{(AV)}$	3.0				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	80				
Maximum Instantaneous Forward Voltage at 3.0A	$V_F$	1.1				V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	10 500				mA mA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	30 11				$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +150				$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$					

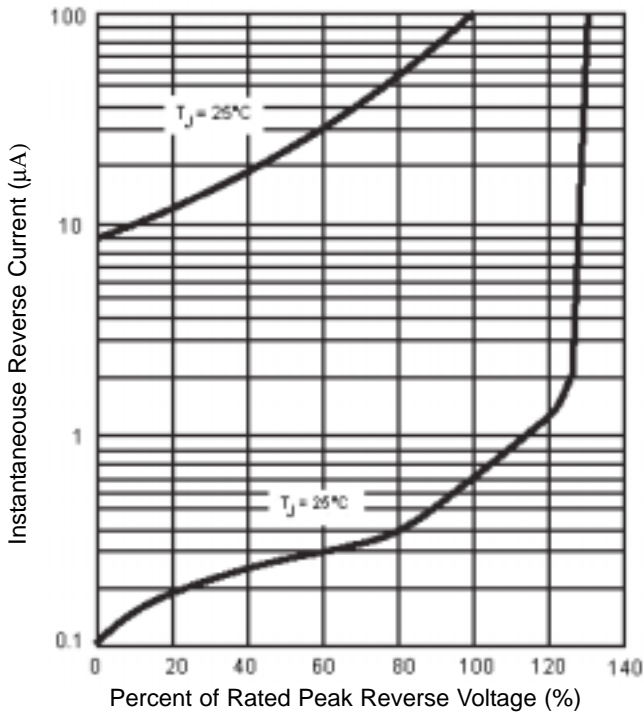
Notes: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.4 x 0.4 inches (10mm x 10mm) Copper Pads.

## Ratings and Characteristic Curves (KBP301G, 303G, 305G, 307G)

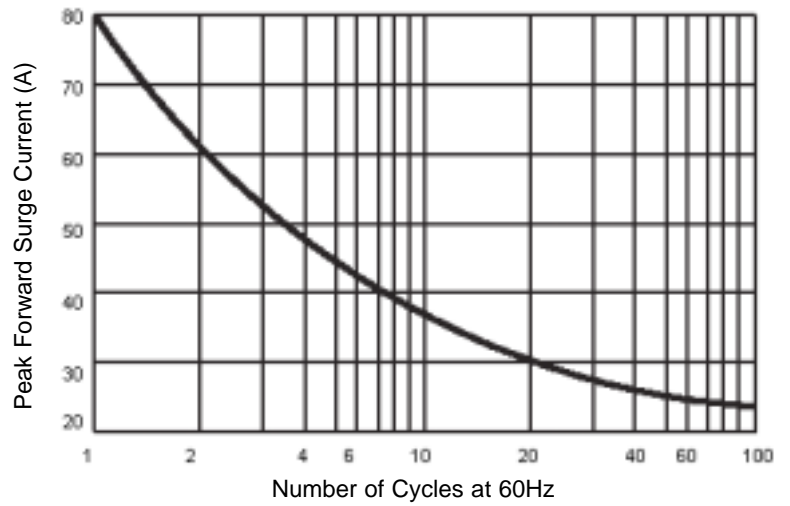
Maximum Forward Current Derating Curve



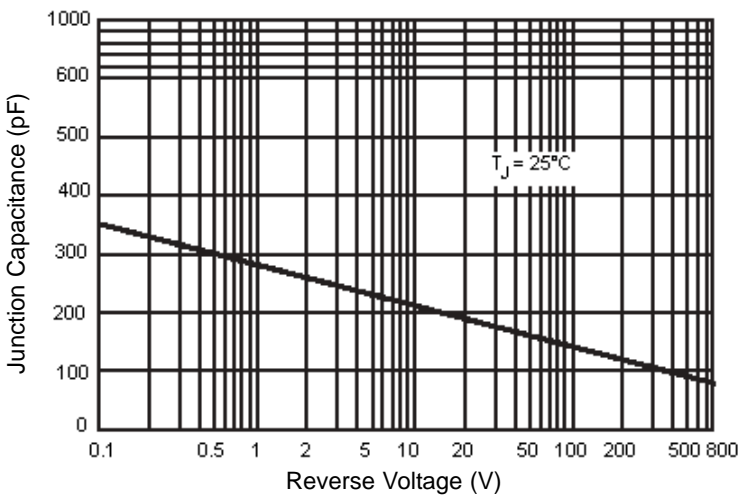
Typical Reverse Characteristics Per Bridge Element



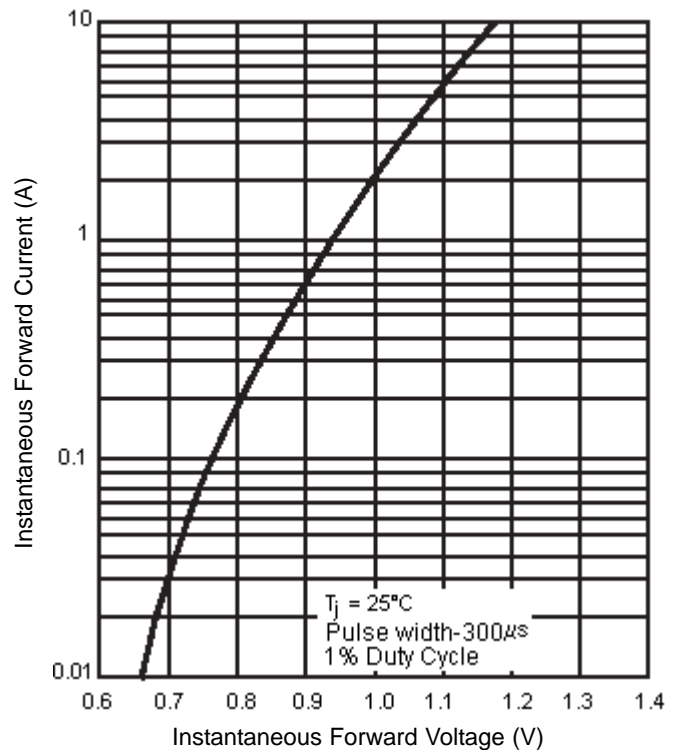
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Junction Capacitance



Typical Forward Characteristics Per Bridge Element



# KBP3- Series



## Part Number Table

Description	Part Number
Bridge Rectifier, 3A, 50V	KBP301G
Bridge Rectifier, 3A, 200V	KBP303G
Bridge Rectifier, 3A, 600V	KBP305G
Bridge Rectifier, 3A, 1000V	KBP307G



## Notes:

## International Sales Offices:

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