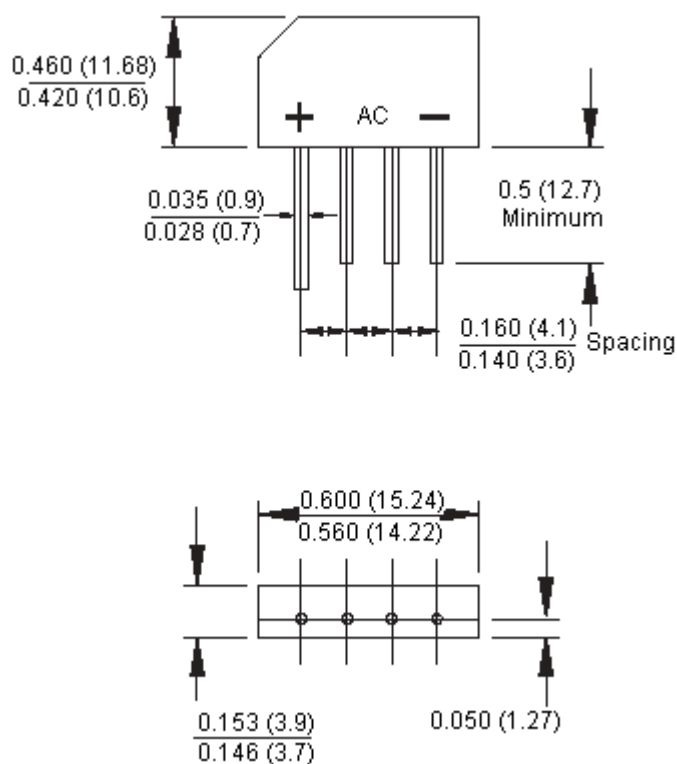




Features:

- 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.

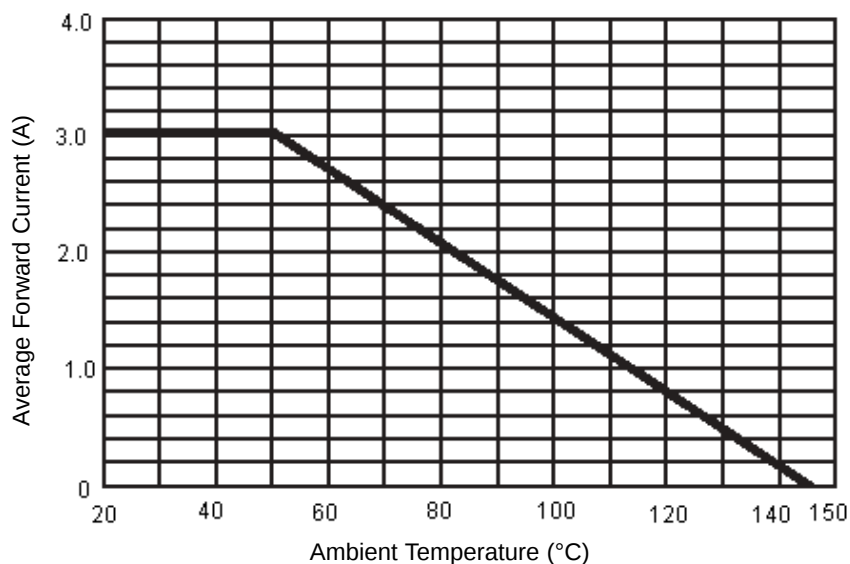
For capacitive load, derate current by 20%.

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°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°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	10 500				mA mA
Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	30 11				°C/W
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}					

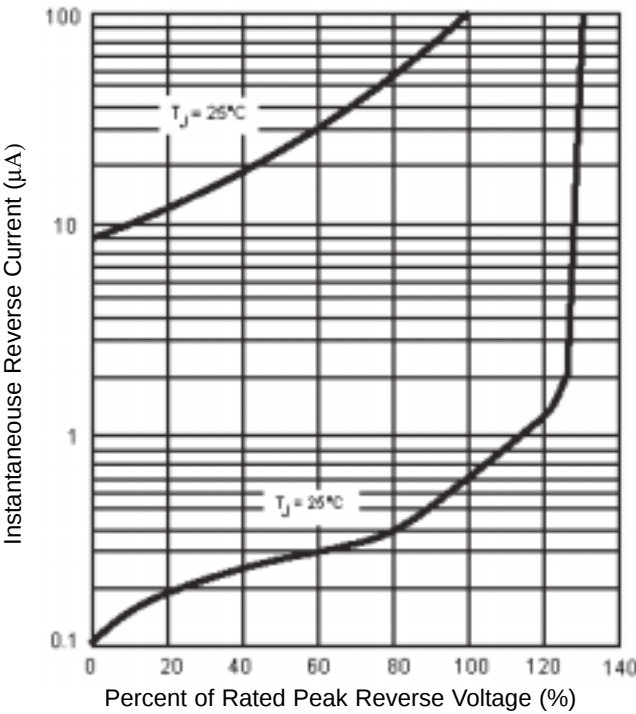
Notes: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.4 x 0.4 inches (10mm x 10mm) Copper Pads.

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

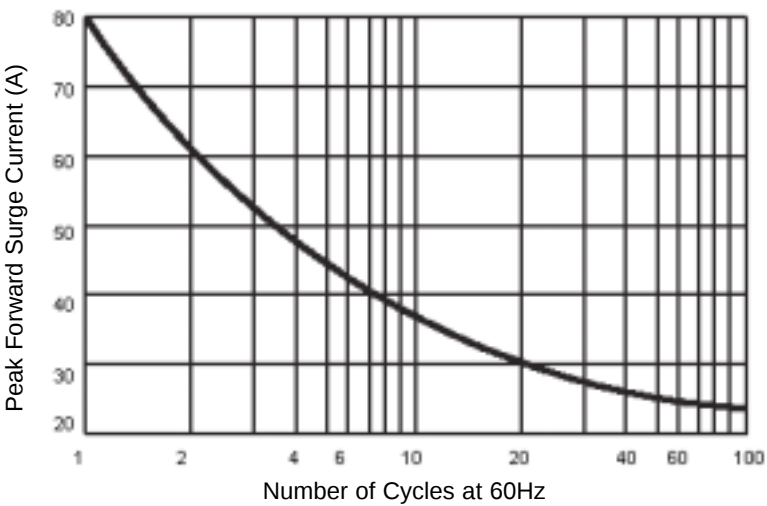
Maximum Forward Current Derating Curve



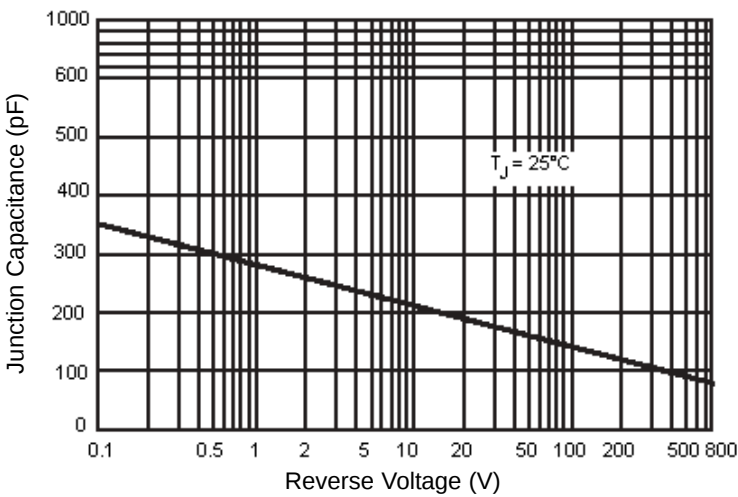
Typical Reverse Characteristics Per Bridge Element



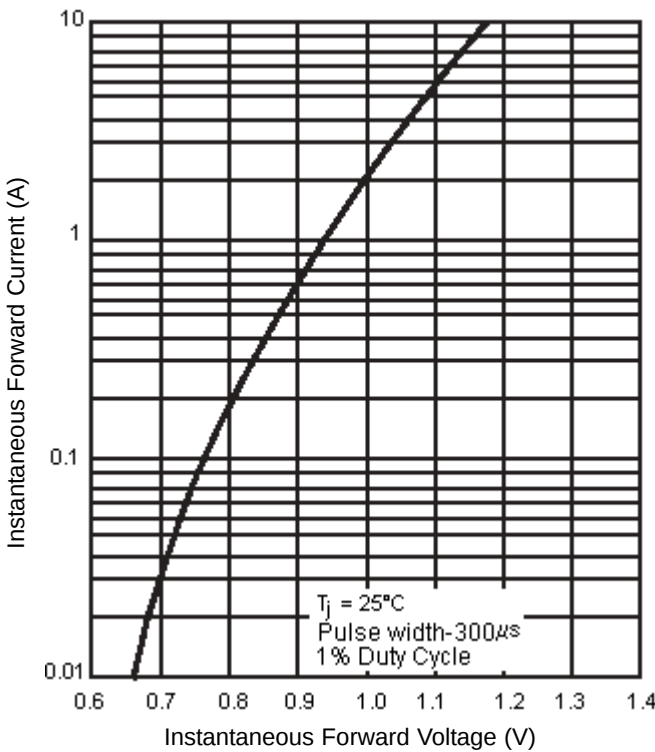
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



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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