

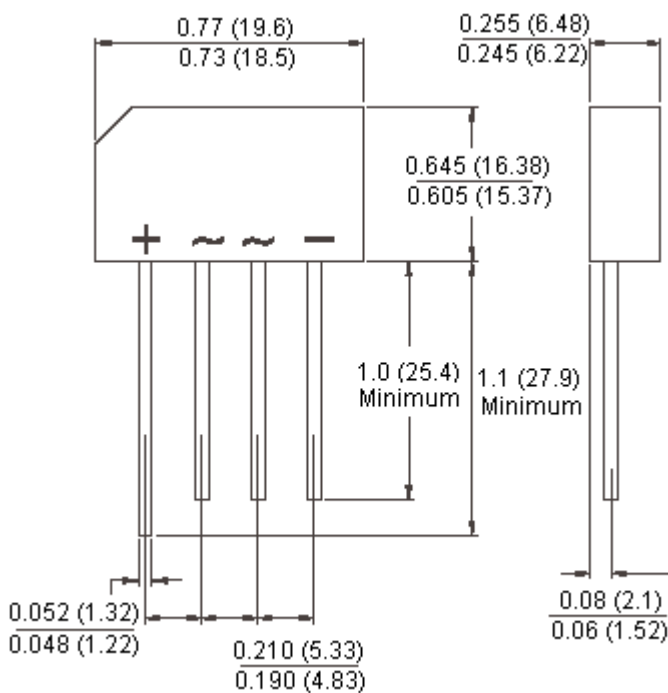


Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction.
- High surge current capability.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch (9.5mm) lead length at 5lbs., (2.3kg) tension.
- Leads solderable per MIL-STD-202, Method 208.



KBL



Dimensions: Inches (Millimetres)

Maximum Ratings at Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

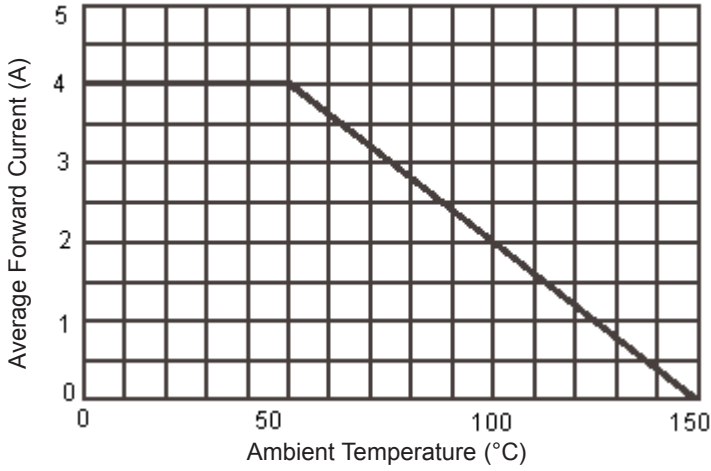
For capacitive load, derate current by 20%.

Type Number	Symbol	KBL405G	KBL407G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	1000	V
Maximum RMS Voltage	V_{RMS}	420	700	
Maximum DC Blocking Voltage	V_{DC}	600	1000	
Maximum Average Forward Rectified Current at $T_A = 50^\circ\text{C}$	$I_{(AV)}$	4.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150		
Maximum Instantaneous Forward Voltage at 2.0A at 4.0A	V_F		1.0 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	μA μA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$		19 2.4	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}			

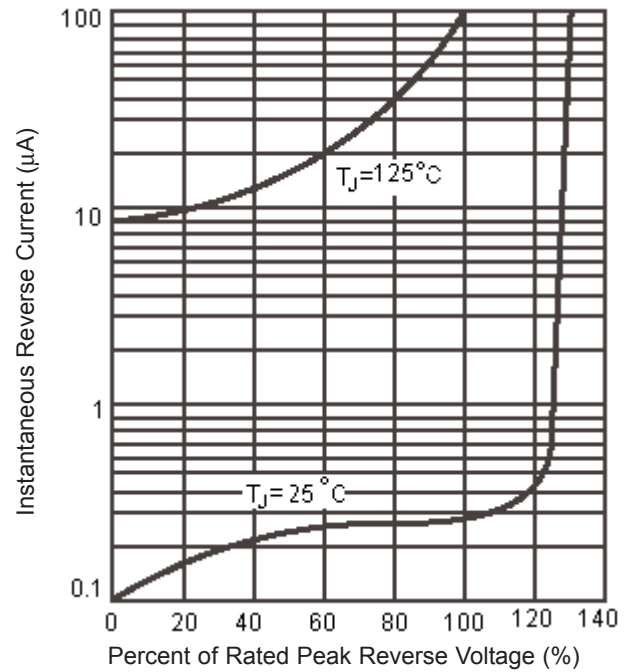
Note : Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB With 0.6 x 0.6 inches (16mm x 16mm) Copper Pads.

Ratings and Characteristic Curves (KBL401G thru KBL407G)

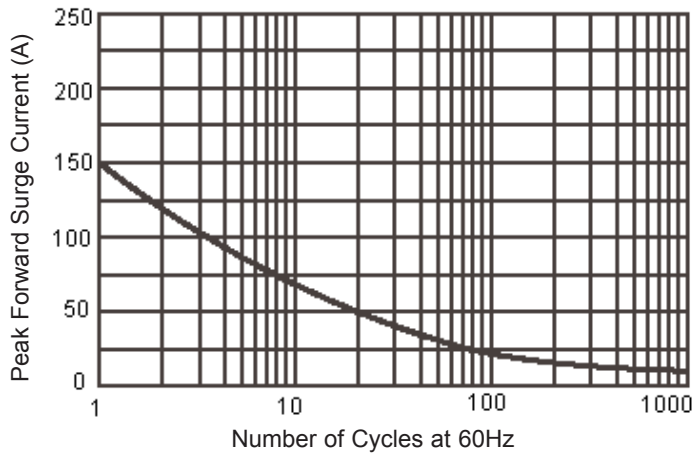
Maximum Forward Current Derating Curve



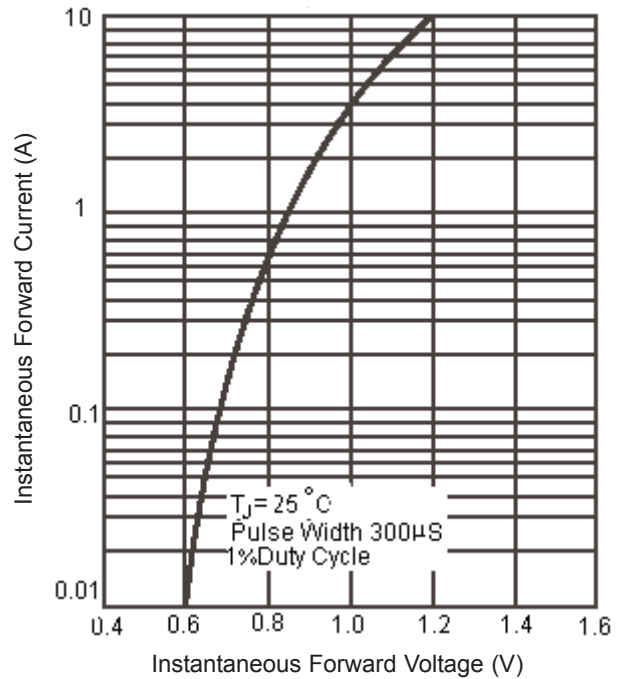
Typical Reverse Characteristics Per Bridge Element



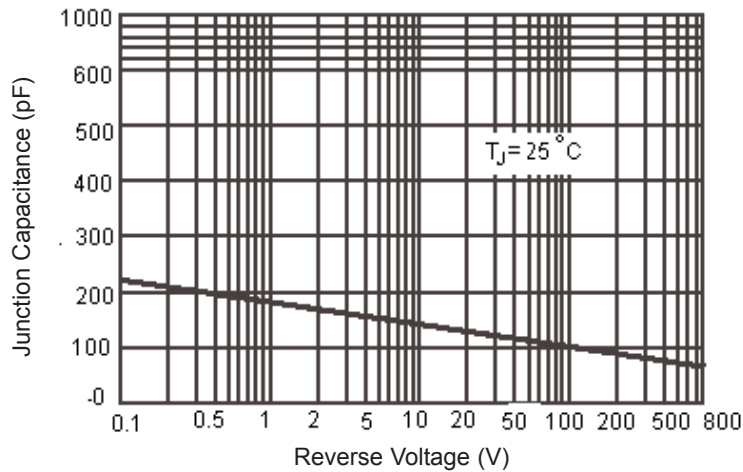
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Instantaneous Forward Characteristics Per Bridge Element



Typical Junction Capacitance



KBLxG- Series



Part Number Table

Description	Part Number
Bridge Rectifier, 4A, 600V	KBL405G
Bridge Rectifier, 4A, 1000V	KBL407G



Notes:

International Sales Offices:

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