

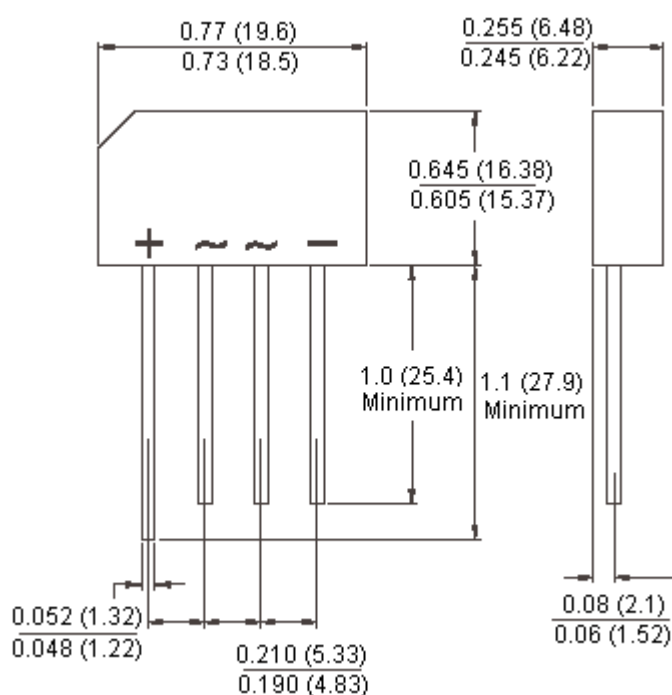


**RoHS
Compliant**

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.

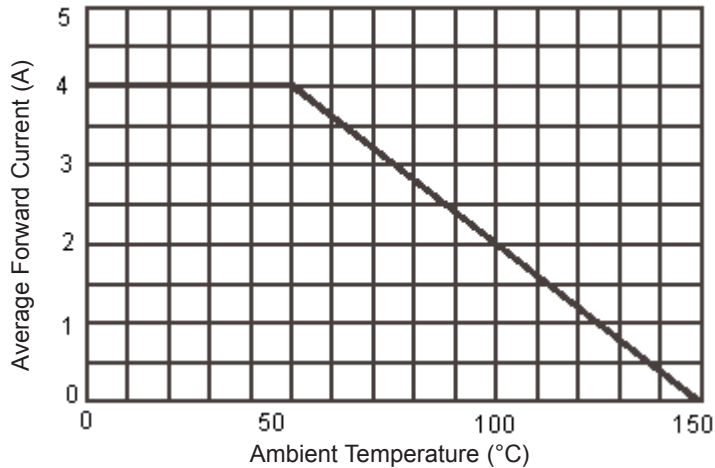
For capacitive load, derate current by 20%.

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°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°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	10 500		μA μA
Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	19 2.4		°C/W
Operating Temperature Range	T _J	-55 to +150		°C
Storage Temperature Range	T _{STG}			

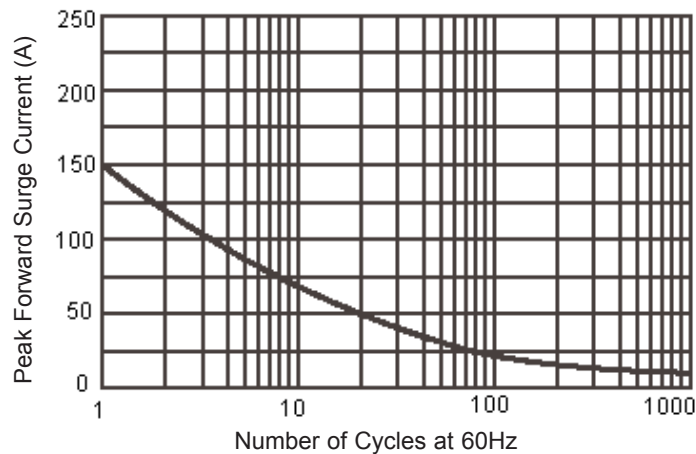
Note : Thermal Resistance from Junction to Ambient and form Junction to Lead Mounted on PCB
With 0.6 x 0.6 inches (16mm x 16mm) Copper Pads.

Ratings and Characteristic Curves (KBL401G thru KBL407G)

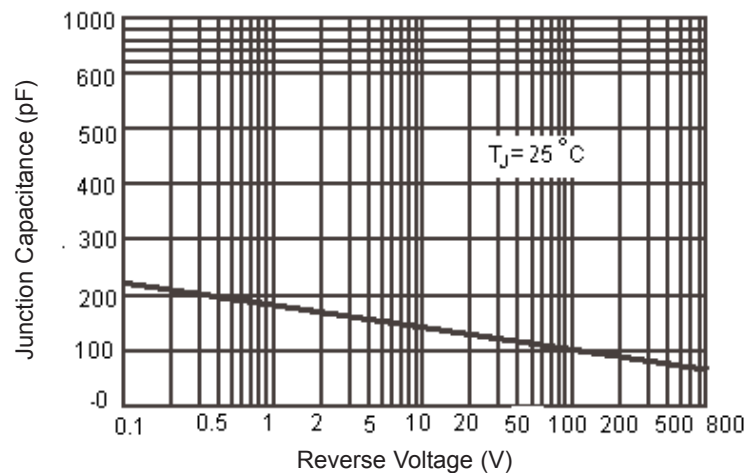
Maximum Forward Current Derating Curve



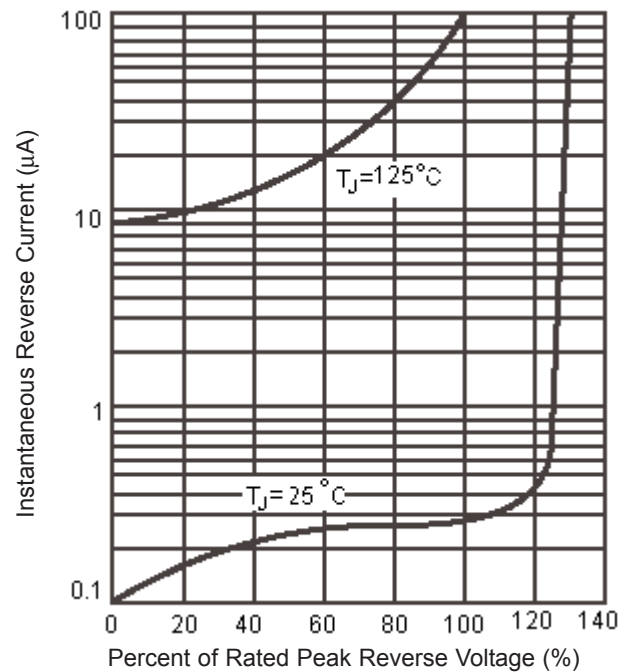
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



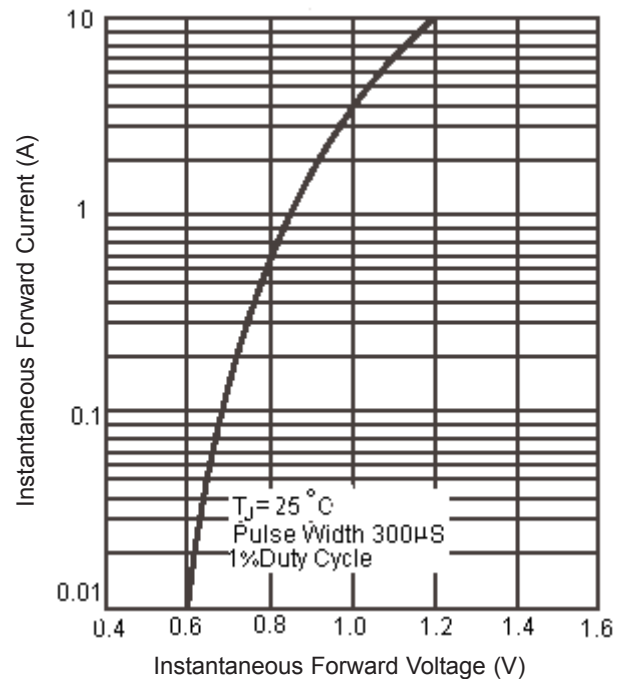
Typical Junction Capacitance



Typical Reverse Characteristics Per Bridge Element



Typical Instantaneous Forward Characteristics Per Bridge Element



KBLxG- Series



Part Number Table

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



Notes:

International Sales Offices:

	AUSTRALIA – Farnell Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		FINLAND – Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ITALY – Farnell Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		SPAIN – Farnell Tel No: 901 20 20 80 Fax No: 901 20 20 90
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