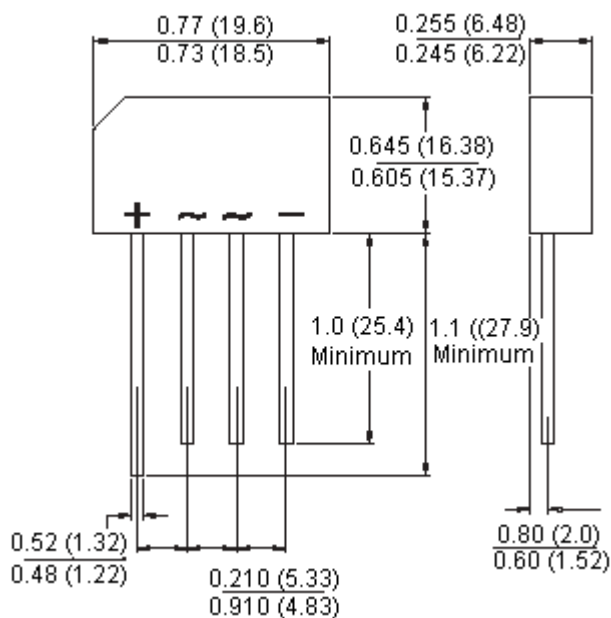




Features:

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

KBL



Dimensions: Inches (Milimeters)

Maximum Ratings at Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

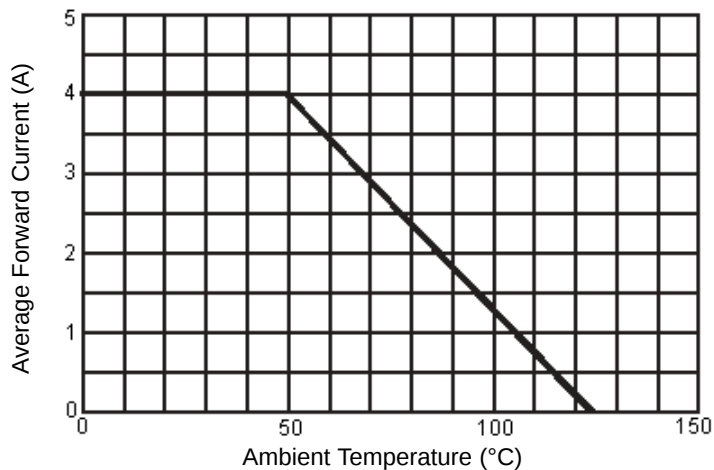
For capacitive load, derate current by 20%.

Type Number	Symbol	KBL401	KBL403	KBL406	KBL407	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	200	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	140	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	200	800	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}	200				
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 +125				°C
Storage Temperature Range	T _{STG}	-55 to +150				

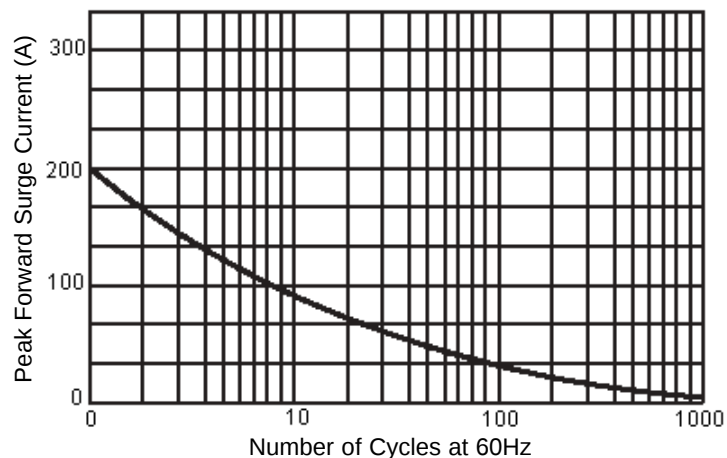
Note : Thermal Resistance from Junction to Ambient Junction to Lead with Units Mounted on PCB at 0.375 inch (9.5mm) Lead Length and 0.6 x 0.6 inches (16mm x 16mm) Copper Pads.

Ratings and Characteristic Curves (KBL401 thru KBL407)

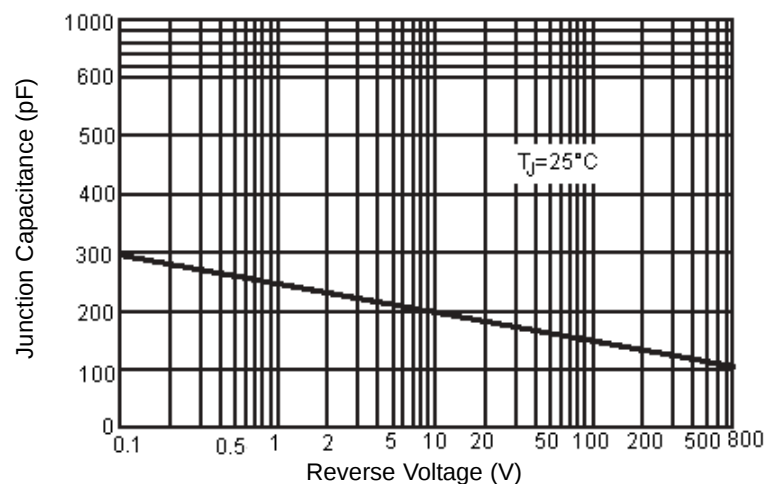
Maximum Forward Current Derating Curve



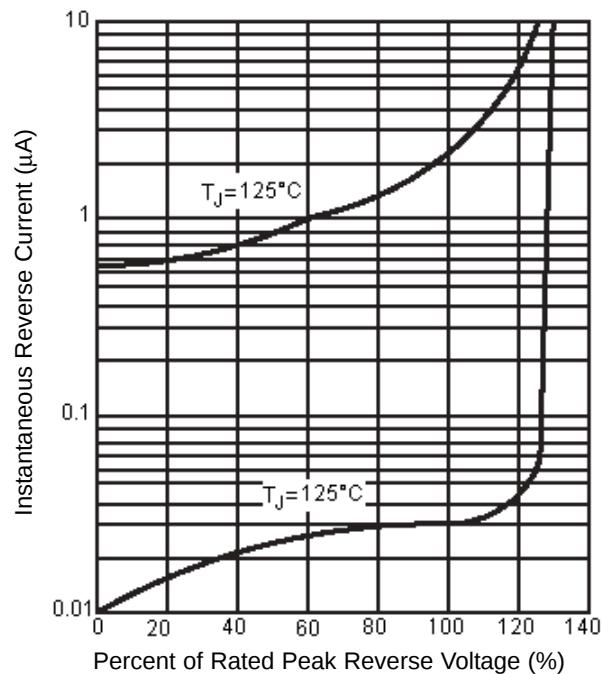
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



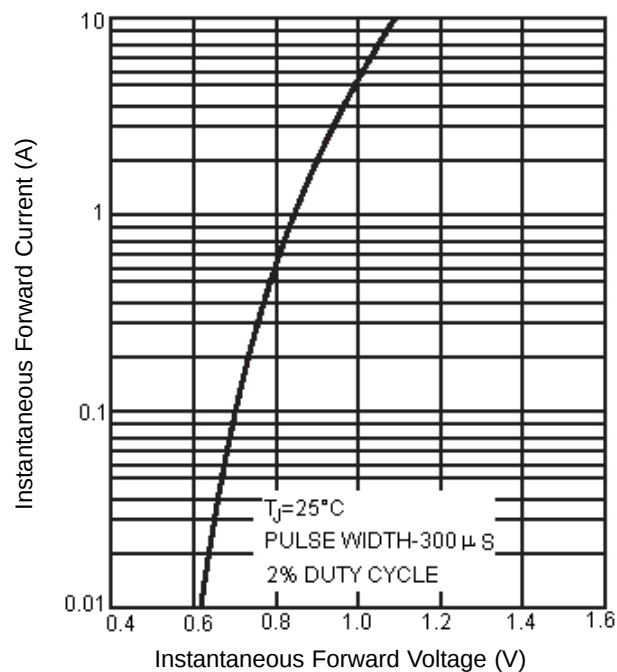
Typical Junction Capacitance



Typical Reverse Characteristics Per Bridge Element



Typical Instantaneous Forward Characteristics Per Bridge Element



Part Number Table

Description	Part Number
Bridge Rectifier, 4A, 50V	KBL401
Bridge Rectifier, 4A, 200V	KBL403
Bridge Rectifier, 4A, 800V	KBL406
Bridge Rectifier, 4A, 1000V	KBL407

Notes:

International Sales Offices:

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