

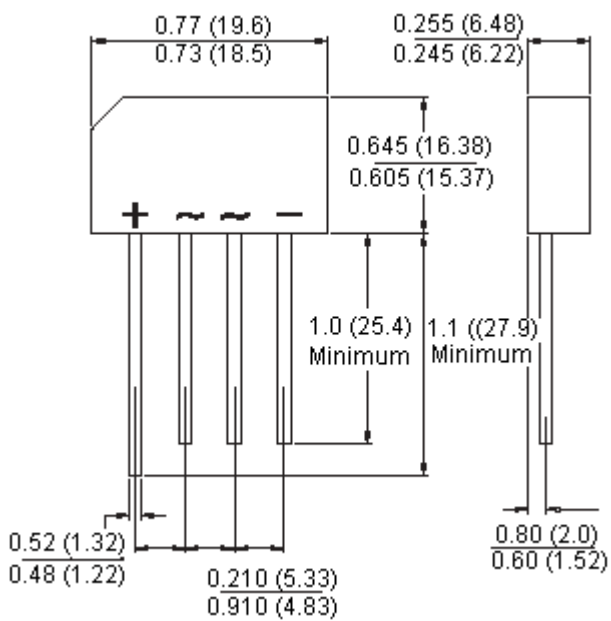


### Features:

- 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.

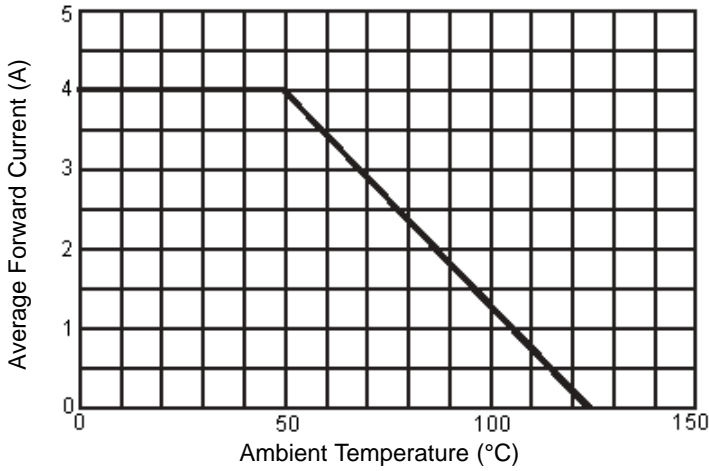
For capacitive load, derate current by 20%.

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 $T_A = 50^\circ\text{C}$	$I_{(AV)}$	4.0				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	200				
Maximum Instantaneous Forward Voltage at 2.0A at 4.0A	$V_F$	1.0 1.1				V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	10 500				$\mu\text{A}$ $\mu\text{A}$
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	19 2.4				$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +125				$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150				

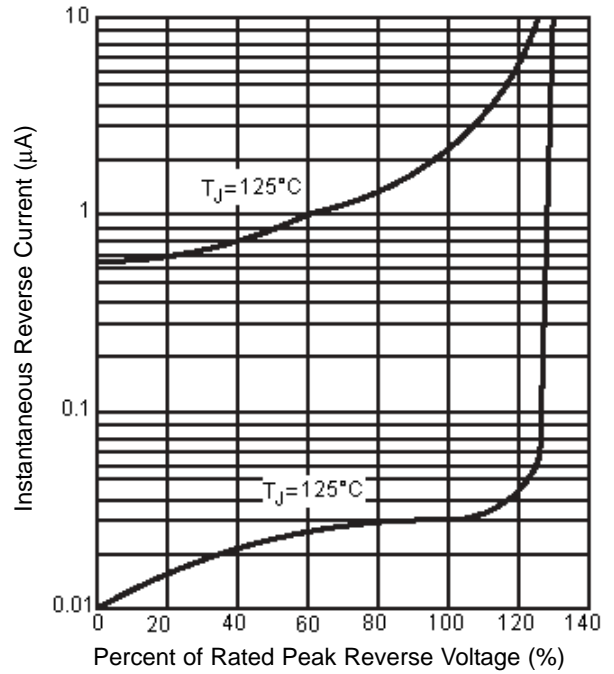
**Note :** Thermal Resistance from Junction to Ambient Junction to Lead with Units Mounted on PCB at 0.375 inch (9.5mm) Lead Length and 0.6 x 0.6 inches (16mm x 16mm) Copper Pads.

## Ratings and Characteristic Curves (KBL401 thru KBL407)

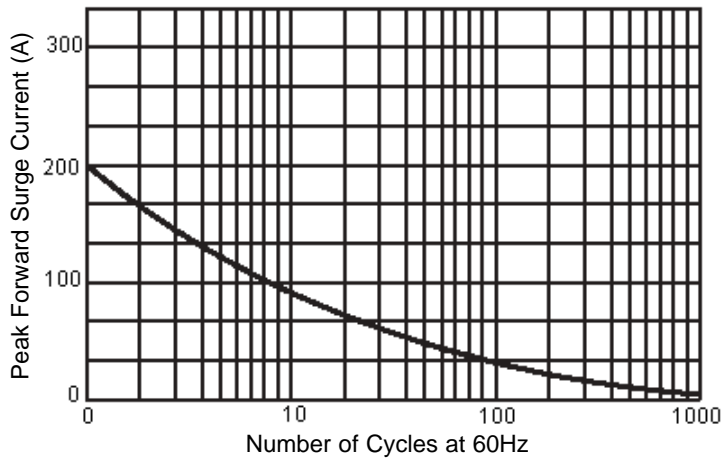
Maximum Forward Current Derating Curve



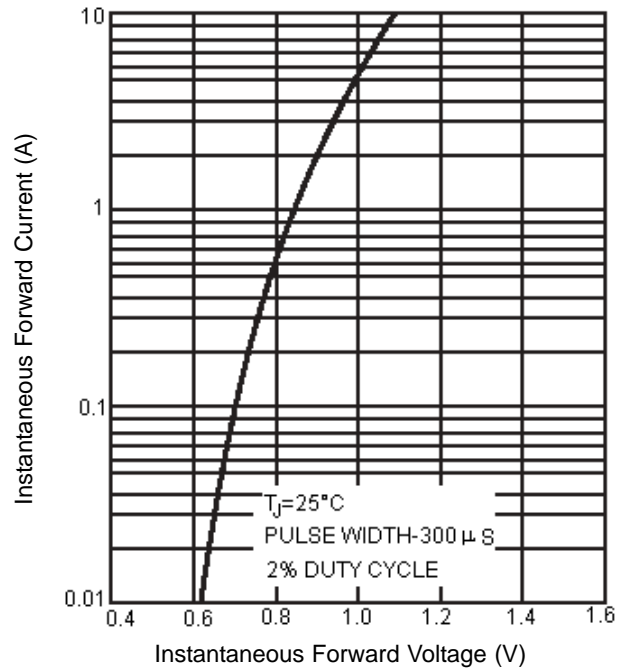
Typical Reverse Characteristics Per Bridge Element



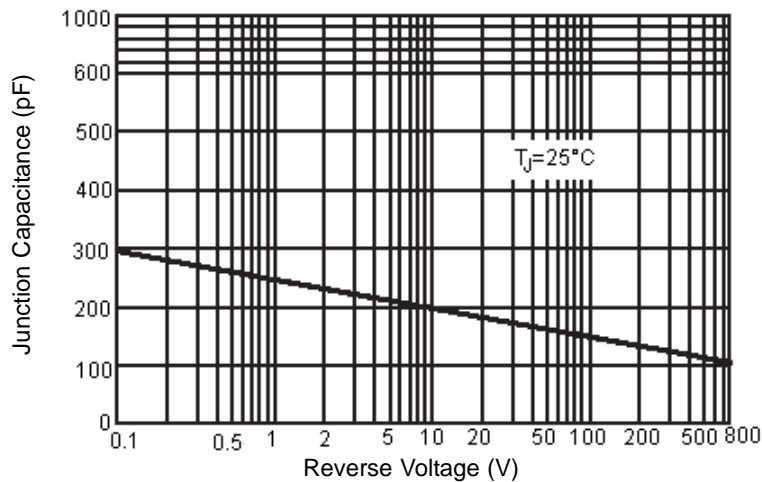
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Instantaneous Forward Characteristics Per Bridge Element



Typical Junction Capacitance



## 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:

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