

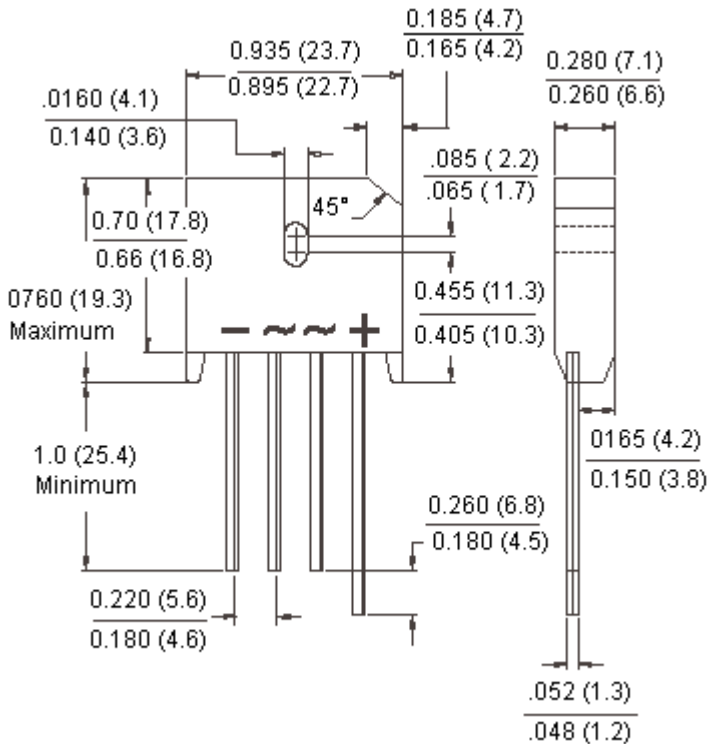


### Features:

- High surge current capability.
- Ideal for printed circuit board.
- Reliable low cost construction technique results in inexpensive product.
- High temperature soldering guaranteed: 260°C/10 seconds 0.375 inch (9.5mm) lead length at 5 lbs., (2.3kg) tension.
- Weight: 8 grams.



### KBU



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.

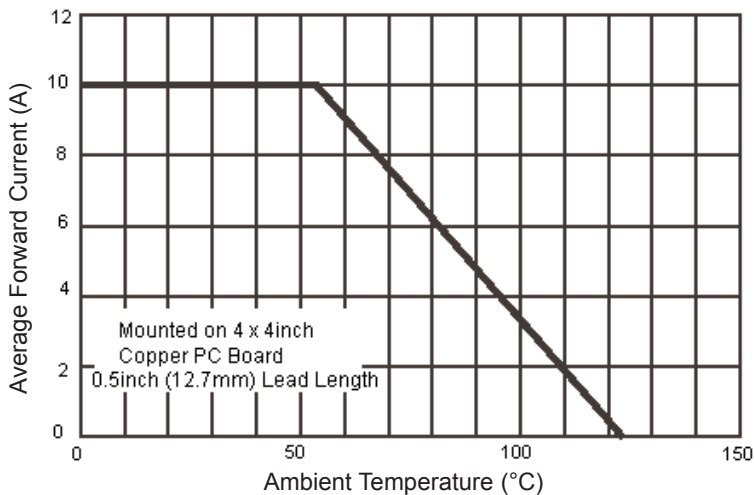
For capacitive load, derate current by 20%.

Type Number	Symbol	KBU 1001	KBU 1002	KBU 1003	KBU 1004	KBU 1005	KBU 1006	KBU 1007	Units	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000		
Maximum Average Forward Rectified Current at $T_A = 50^\circ\text{C}$	$I_{(AV)}$	10							A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	300								
Maximum Instantaneous Forward Voltage at 5.0A at 10A	$V_F$					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)	$R_{\theta JC}$					2.2			$^\circ\text{C}/\text{W}$	
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$									

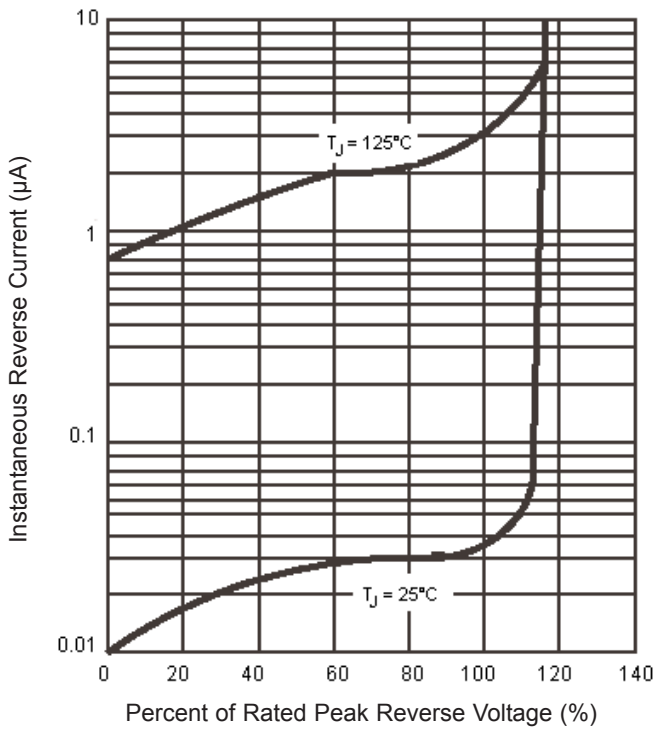
Note: Thermal Resistance from Junction to Case with Device Mounted on 2 x 3 x 0.25 inches Al-Plate.

## Ratings and Characteristic Curves (KBU1001 thru KBU 1007)

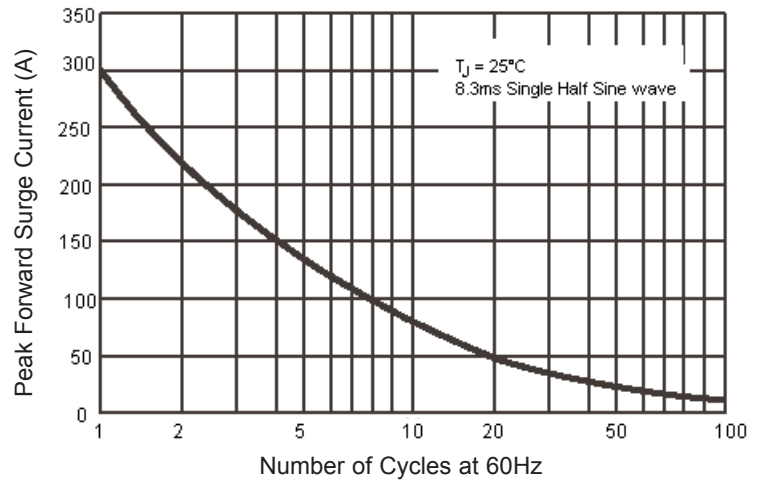
Maximum Forward Current Derating Curve



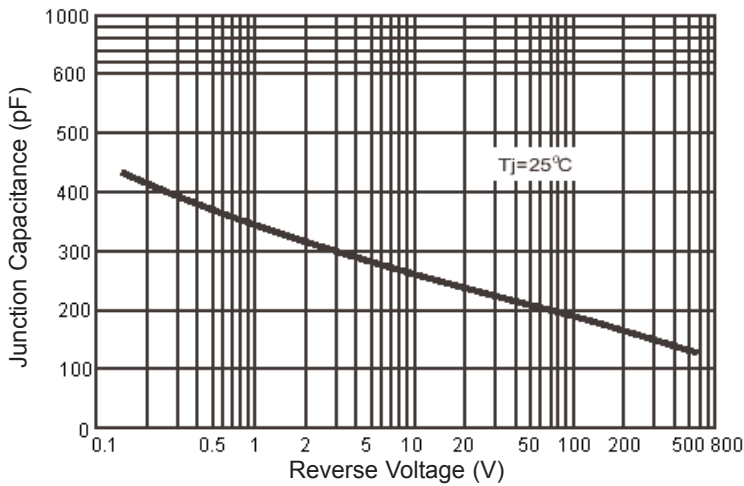
Typical Reverse Characteristics Per Bridge Element



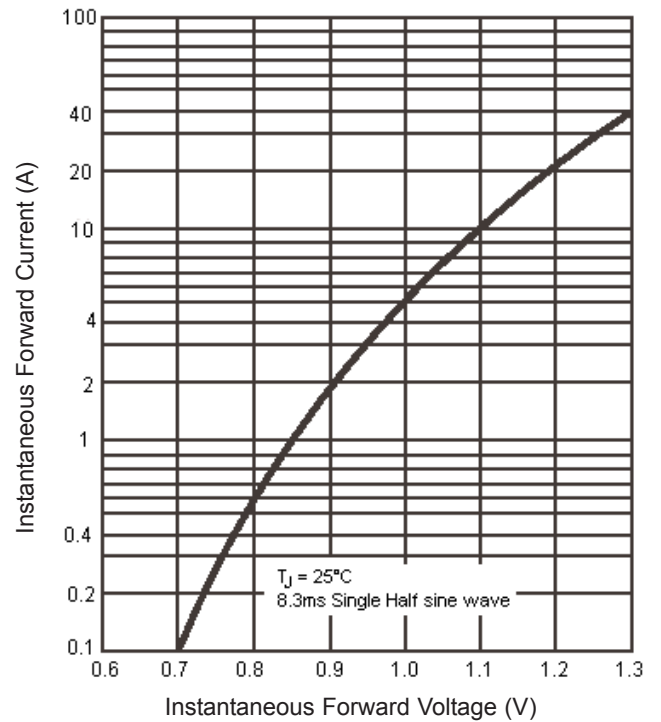
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Junction Capacitance



Typical Instantaneous Forward Characteristics Per Bridge Element



## Part Number Table

Description	Part Number
Bridge Rectifier, 10A, 50V	KBU1001
Bridge Rectifier, 10A, 100V	KBU1002
Bridge Rectifier, 10A, 200V	KBU1003
Bridge Rectifier, 10A, 400V	KBU1004
Bridge Rectifier, 10A, 600V	KBU1005
Bridge Rectifier, 10A, 800V	KBU1006
Bridge Rectifier, 10A, 1000V	KBU1007

## Notes:

## International Sales Offices:

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