

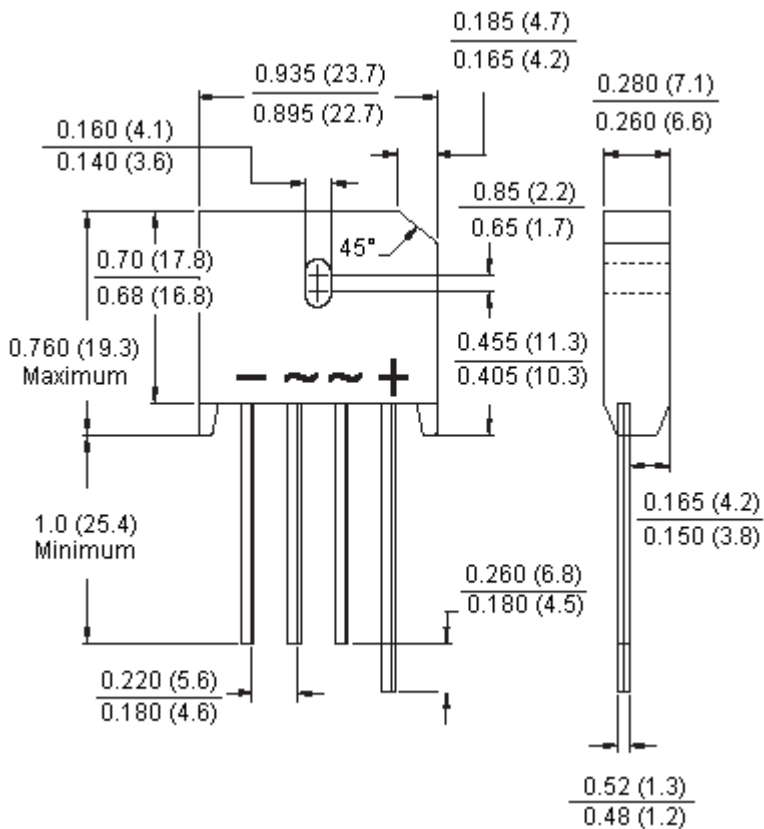


## Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction.
- Plastic material.
- Surge overload rating to 175 amperes peak.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths at 5lbs., (2.3kg) tension.
- Weight: 0.3 ounce, 8.0 grams.
- Mounting torque: 5in. lb. Maximum.



## 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%.

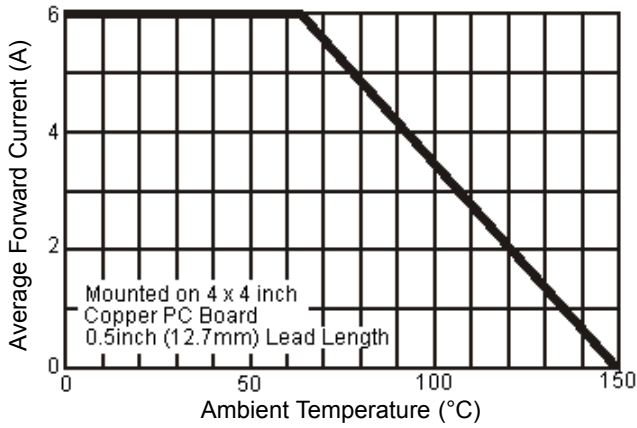
Type Number	Symbol	KBU603G	KBU605G	KBU607G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	600	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	420	700	
Maximum DC Blocking Voltage	$V_{DC}$	200	600	1000	
Maximum Average Forward Rectified Current at $T_A = 65^\circ\text{C}$	$I_{(AV)}$	6.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	175			
Maximum Instantaneous Forward Voltage at 3.0A at 6.0A	$V_F$	1.0 1.1			V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	5.0 500			$\mu\text{A}$ $\mu\text{A}$
Typical Thermal Resistance (Note 1) (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	8.6 3.1			$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +150			$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$				

Notes: 1. Thermal Resistance from Junction to Ambient with units in Free Air, PCB Mounted on 0.5 x 0.5 inches (12mm x 12mm) Copper Pads, 0.375 inch (9.5mm) Lead Length.

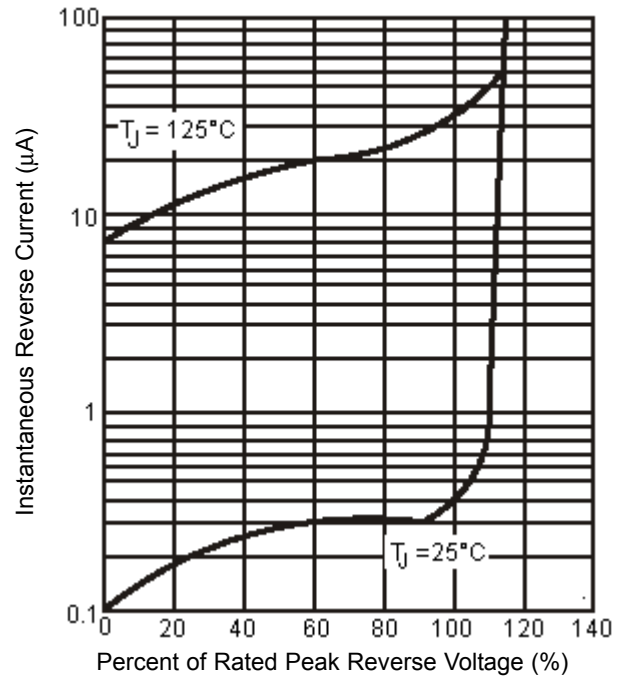
2. Thermal Resistance from Junction to Case with Units Mounted on 2 x 3 x 0.25 inch Al-Plate.

## Ratings and Characteristic Curves (KBU603G thru KBU607G)

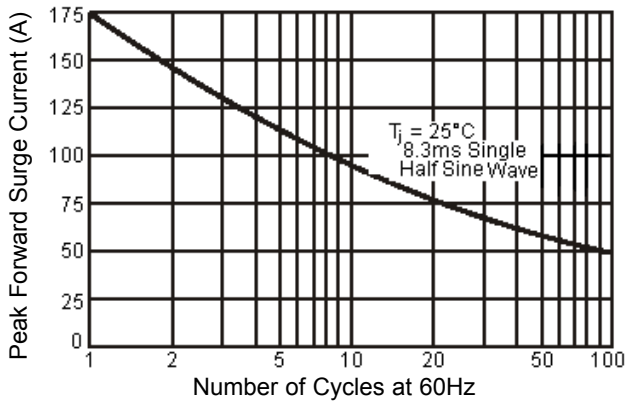
Maximum Forward Current Derating Curve



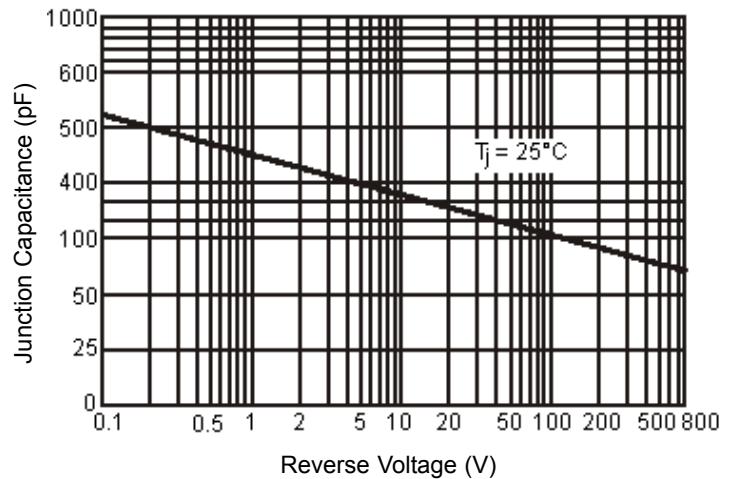
Typical Reverse Characteristics Per Bridge Element



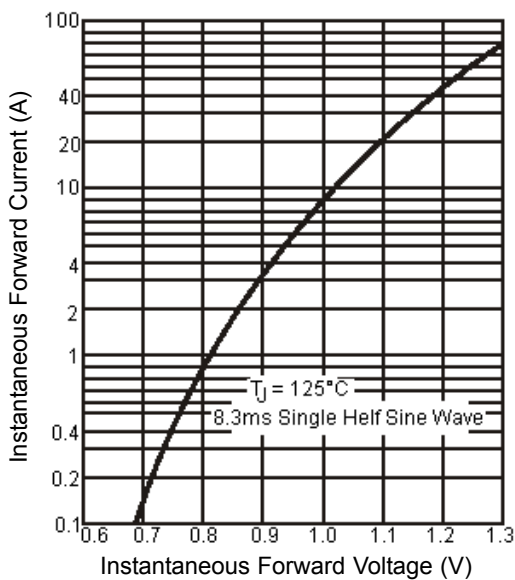
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Junction Capacitance



Typical Forward Characteristics Per Bridge Element



## Part Number Table

Description	Part Number
Bridge Rectifier, 6A, 200V	KBU603G
Bridge Rectifier, 6A, 600V	KBU604G
Bridge Rectifier, 6A, 1000V	KBU607G

## Notes:

## International Sales Offices:

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