

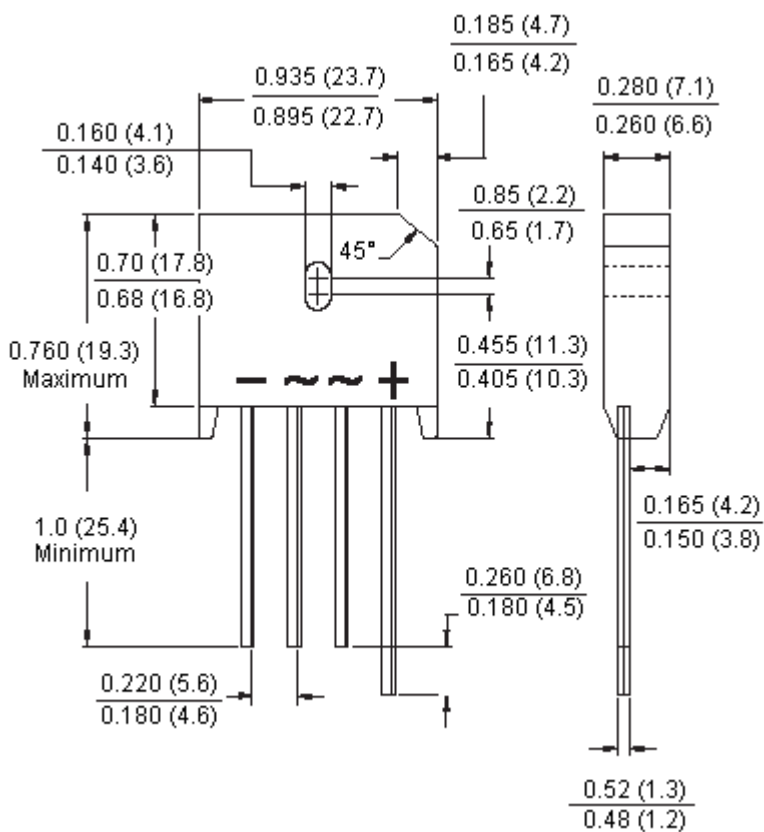


Features:

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



KBU



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.

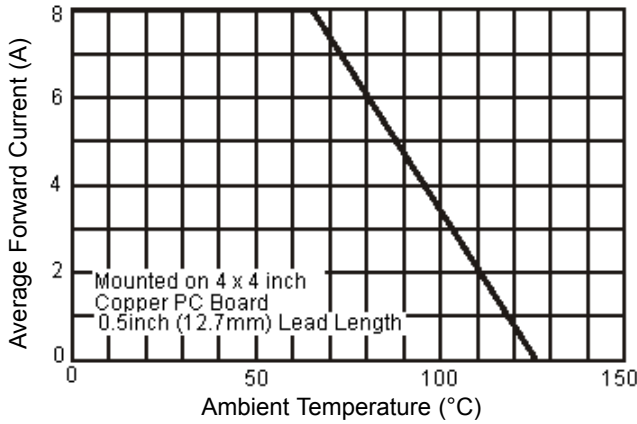
For capacitive load, derate current by 20%.

Type Number	Symbol	KBU 802	KBU 803	KBU 805	KBU 806	KBU 807	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	100	200	600	800	1000	
Maximum Average Forward Rectified Current at $T_A = 65^\circ\text{C}$	$I_{(AV)}$	8.0					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 4.0A at 8.0A	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					μA μA
Typical Thermal Resistance (Note) (Note)	$R_{\theta JA}$ $R_{\theta JC}$	18 3.0					$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +125					$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150					

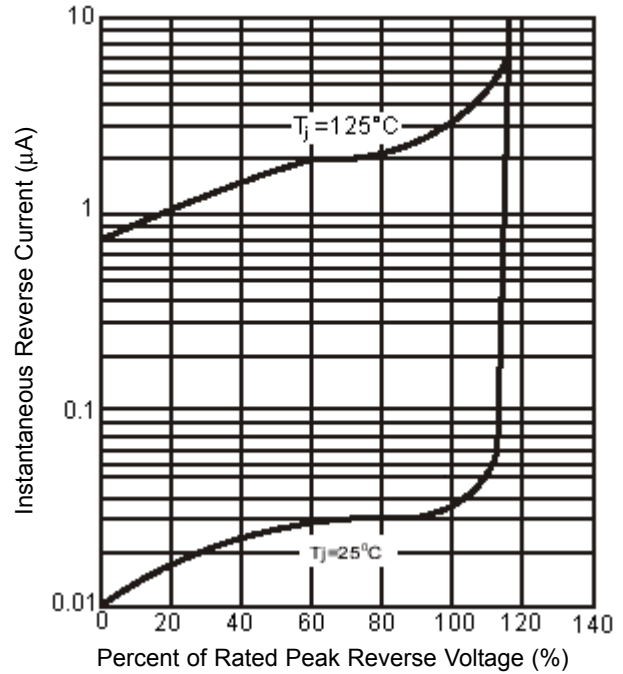
Note: Thermal Resistance from Junction to Ambient and Junction to Case with Units Mounted on.
2 x 3inches x 0.25 Al-Plate.

Ratings and Characteristic Curves (KBU802, 803, 805 thru KBU807)

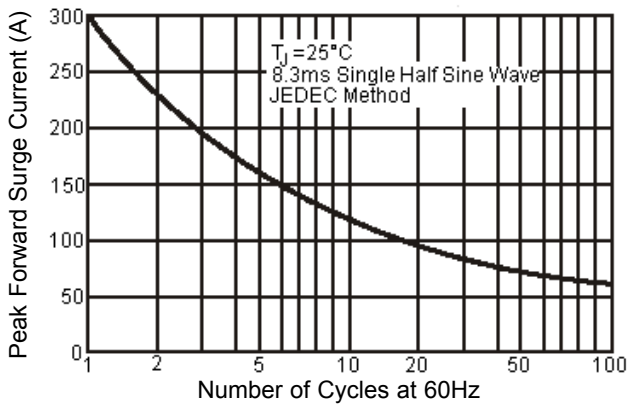
Maximum Forward Current Derating Curve



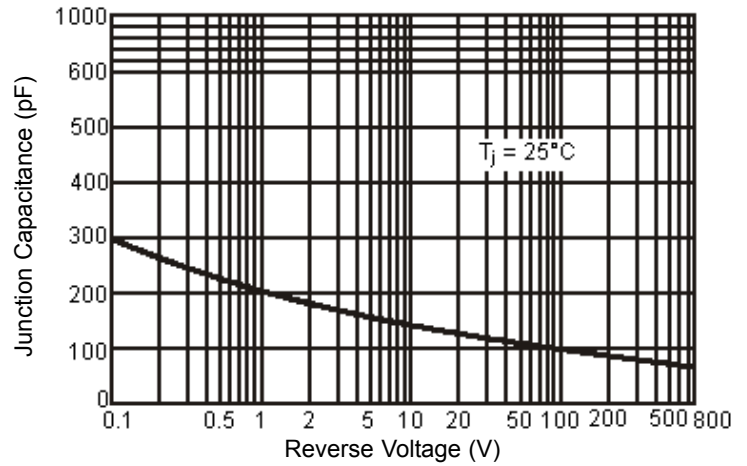
Typical Reverse Characteristics Per Bridge Element



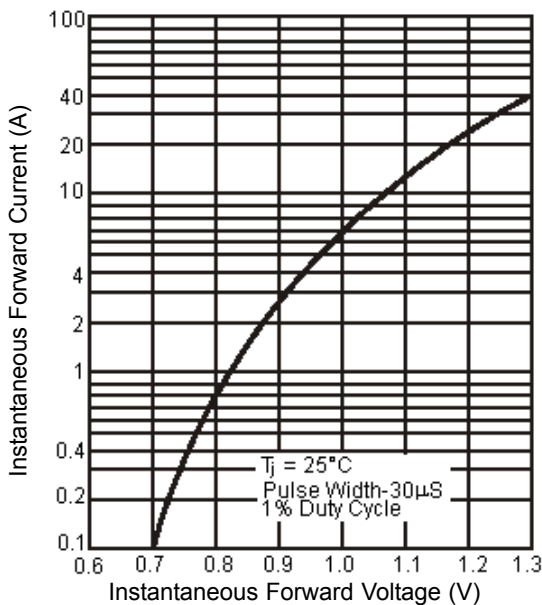
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Junction Capacitance



Typical Instantaneous Forward Characteristics Per Bridge Element



Part Number Table

Description	Part Number
Bridge Rectifier, 8A, 100V	KBU802
Bridge Rectifier, 8A, 200V	KBU803
Bridge Rectifier, 8A, 600V	KBU805
Bridge Rectifier, 8A, 800V	KBU806
Bridge Rectifier, 8A, 1000V	KBU807

Notes:

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