

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts
Forward Current - 8 Amperes

Features

- Low forward voltage drop
- Ideal for printed circuit board
- High surge forward current capability
- Materials used carries U/L recognition

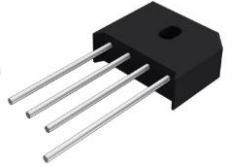
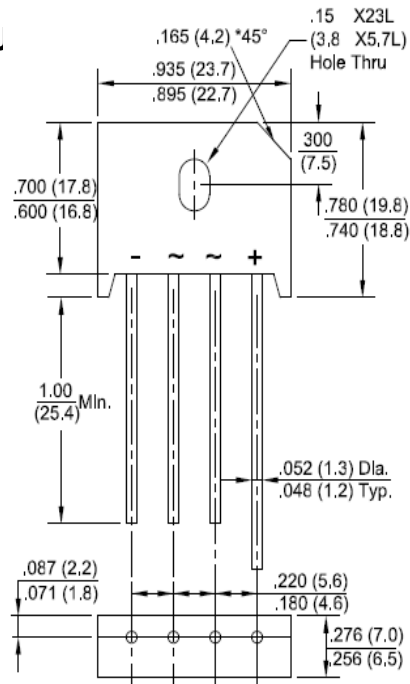
Mechanical Data

- Polarity: Symbol Marked on body
- Mounting position: Any
- Mounting torque: 5 In.lb.Max

Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

KBL



Package Outline Dimensions in Inches (Millimeters)

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%.

Characteristics	Symbol	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	UNIT
Maximum Repetitive 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	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ TC=100°C	I _(AV)	8.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	166							A ² s
Peak Forward Voltage per Diode at 4A DC	V _F	1.0							V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	10							μA
DC Blocking Voltage per Diode @T _J =125°C		300							
Typical Junction Capacitance (Note2)	C _J	250							pF
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.The typical data above is for reference only .

Fig. 1 - Forward Current Derating Curve

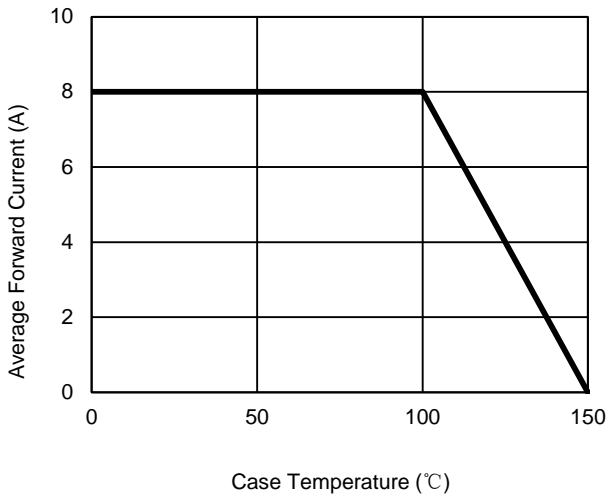


Fig. 2 - Maximum Non-Repetitive Surge Current

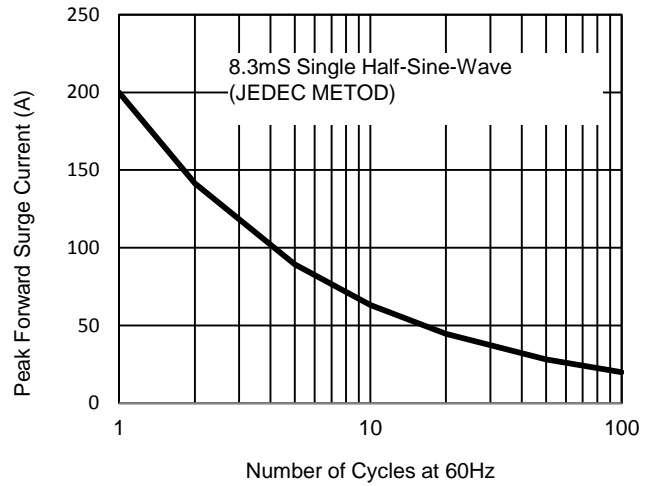


Fig. 3 - Typical Reverse Characteristics

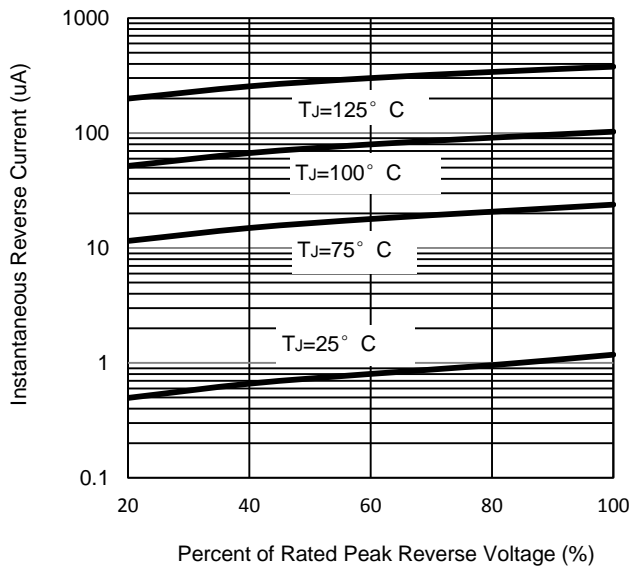


Fig. 4 - Typical Forward Characteristics

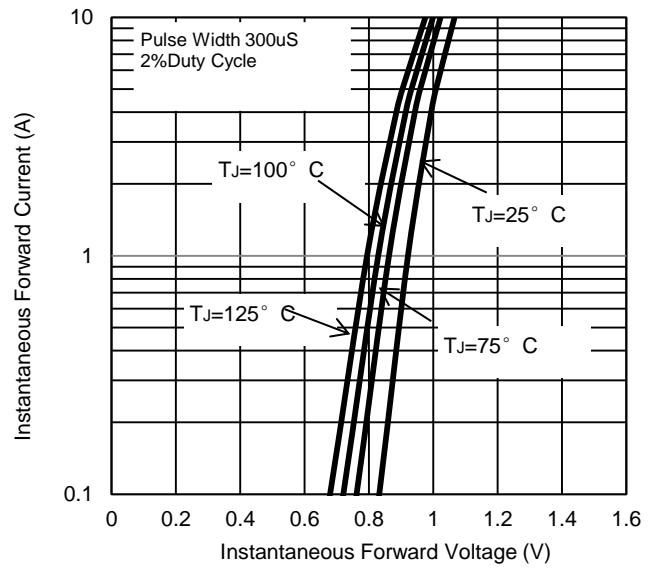
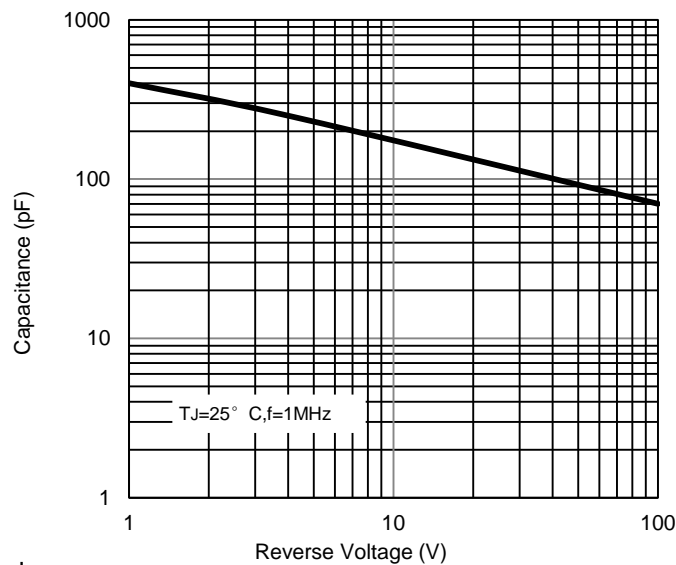


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.



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