

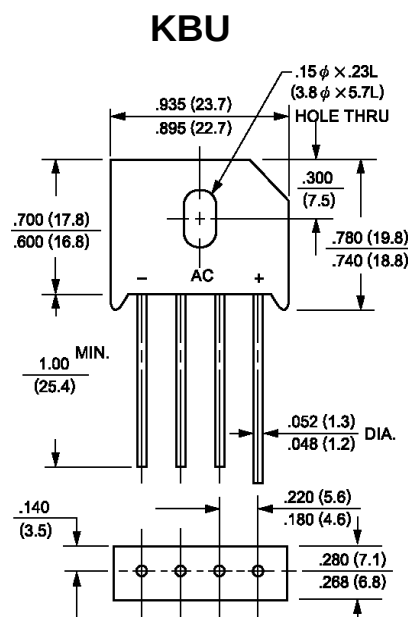
6.0A SINGLE PHASE SILICON BRIDGE RECTIFIERS

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength
- Low Reverse Leakage Current
- Surge Overload Rating to 250A Peak
- Ideal for Printed Circuit Board Applications

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 6.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATINGS	SYMBOL	KBU 6A	KBU 6B	KBU 6D	KBU 6G	KBU 6J	KBU 6K	KBU 6M	UNITS
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 (T _c =50°C)	I _{F(AV)}	6.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	250							A
Maximum Instantaneous Forward Voltage (at forward current 6.0A DC)	V _F	1.1							V
Maximum DC Reverse Current T _a =25°C (at rated DC blocking voltage) T _a =100°C	I _R	10.0 500							μA μA
Storage and Operating Junction Temperature	T _{STG} , T _J	-55 to + 150							°C

- Notes:
1. Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink.
 2. Non-repetitive, for t > 1.0ms and < 8.3ms.
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

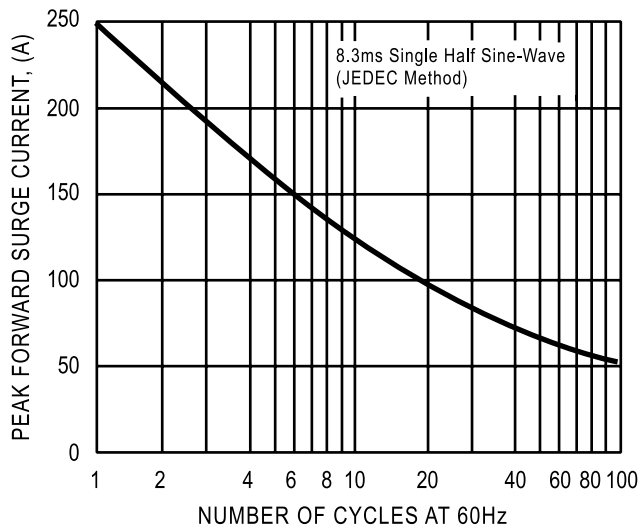


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

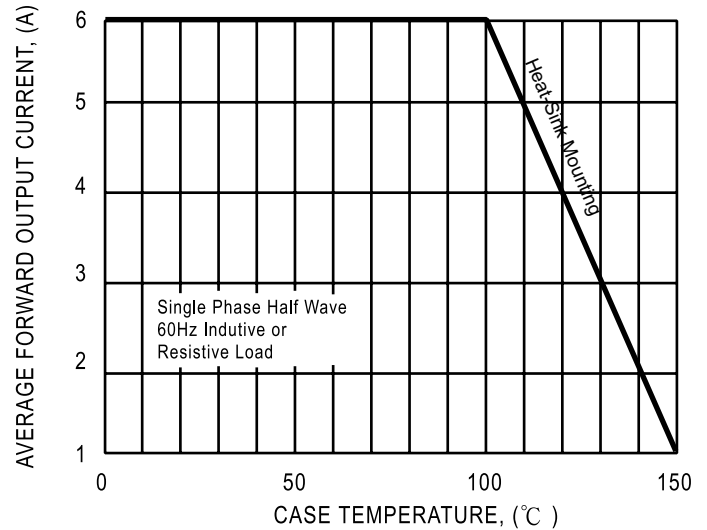


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

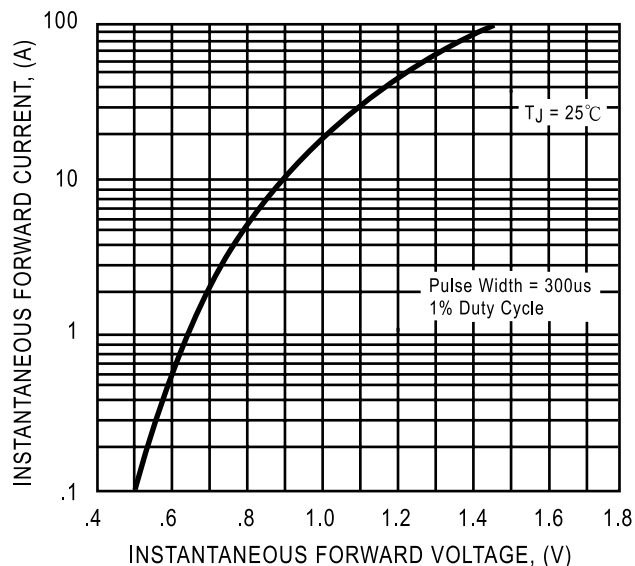


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

