



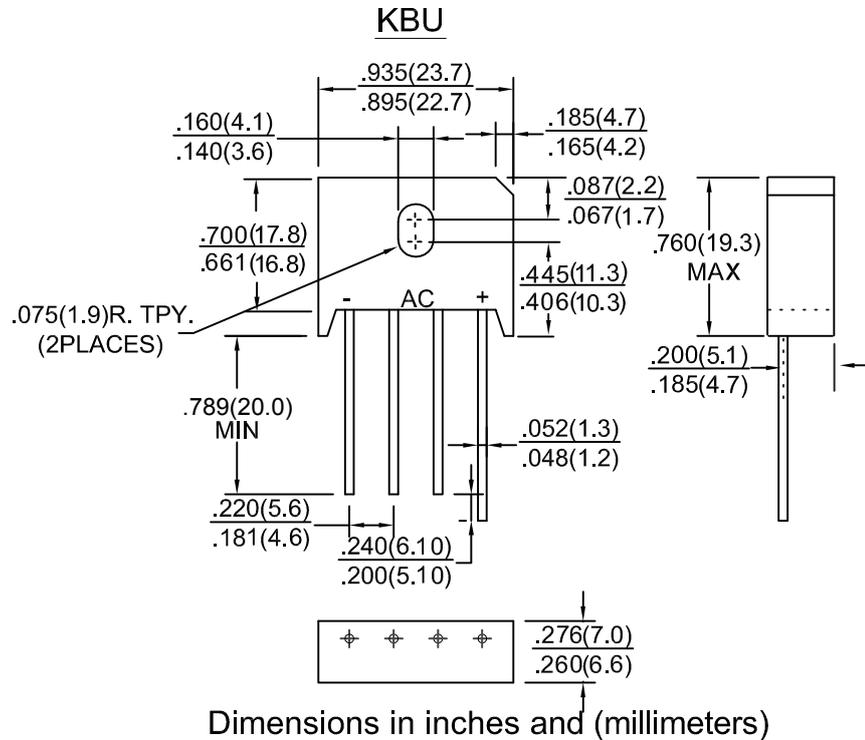
SINGLE PHASE SILICON BRIDGE RECTIFIERS

FEATURES:

- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

MECHANICAL DATA

- **Package:** KBU
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	KBU 8A	KBU 8B	KBU 8D	KBU 8G	KBU 8J	KBU 8K	KBU 8M	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current T _c =100°C T _a =45°C	I _O					8.0 6.0			Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}					150			Amps
Maximum instantaneous forward voltage drop per leg at 8.0 A	V _F					1.1			Volts
Maximum DC reverse current at rated DC blocking voltage T _a =25°C T _a =100°C	I _R					10 500.0			μA
Operating junction and storage temperature range	T _j , T _{stg}					-55 to +150		°C/W	



RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Forward current derating curve

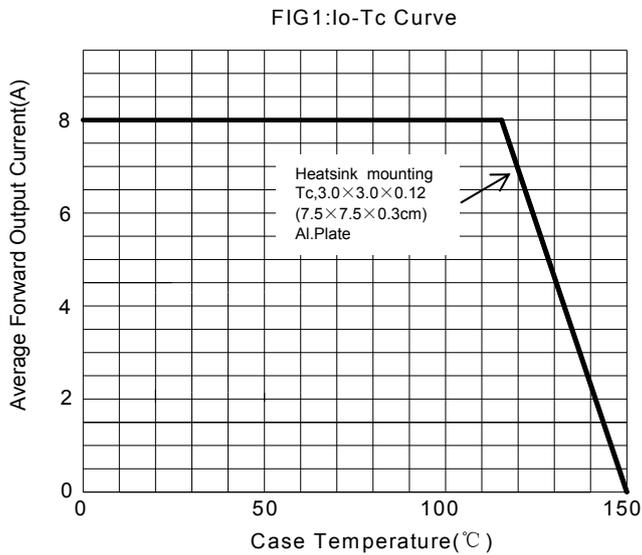


Fig. 2 - Maximum non-repetitive peak fwd surge current

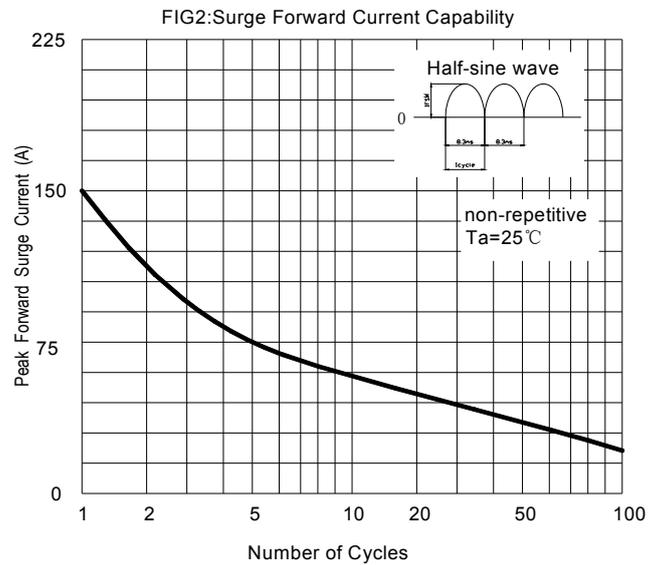


Fig.3 - Typical reverse characteristics

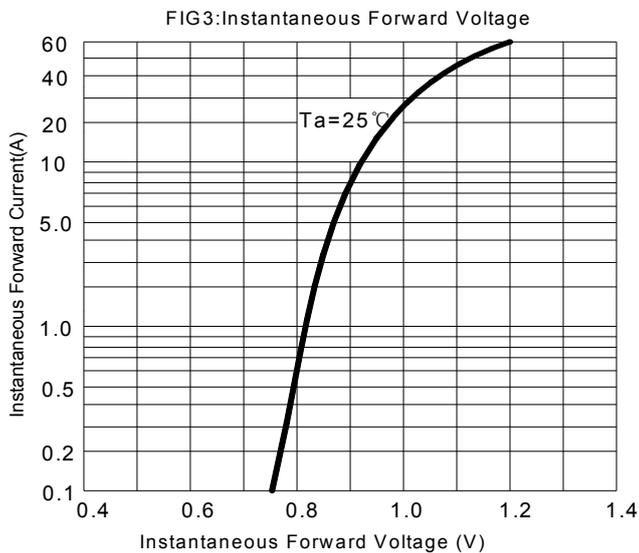
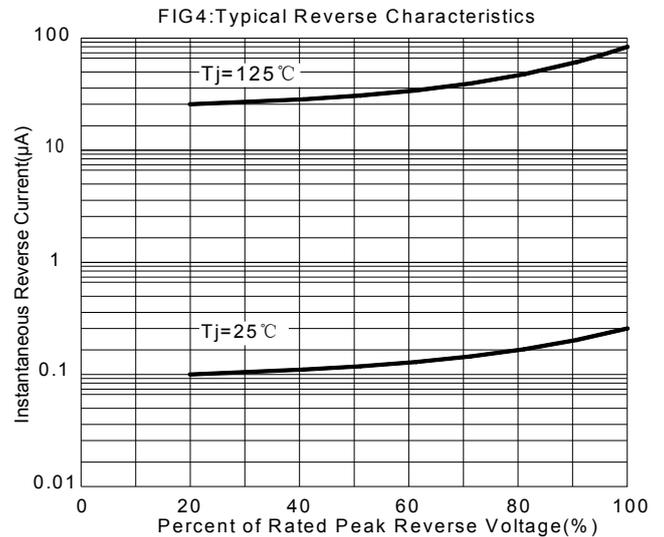


Fig. 4 - Typical forward characteristics





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