



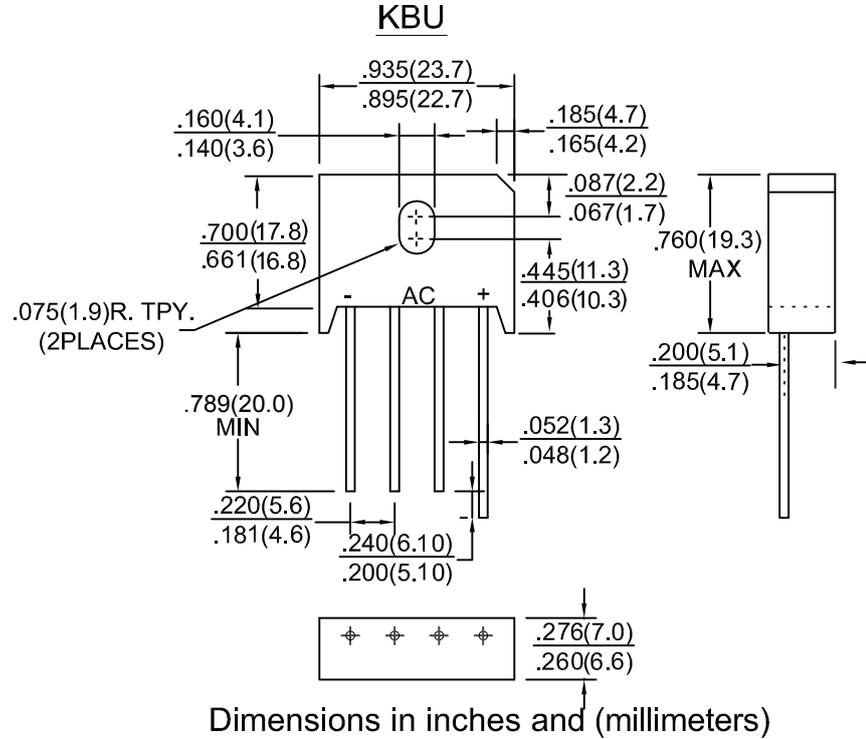
SINGLE PHASE SILICON BRIDGE RECTIFIERS

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 10A	KBU 10B	KBU 10D	KBU 10G	KBU 10J	KBU 10K	KBU 10M	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	I _O	10							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	170							Amps
Maximum instantaneous forward voltage drop per leg at 10 A	V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25°C Ta=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

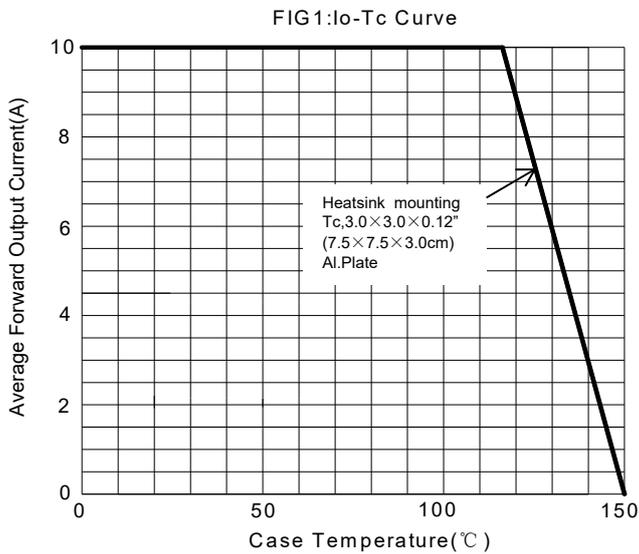


Fig. 2 - Maximum non-repetitive peak fwd surge current

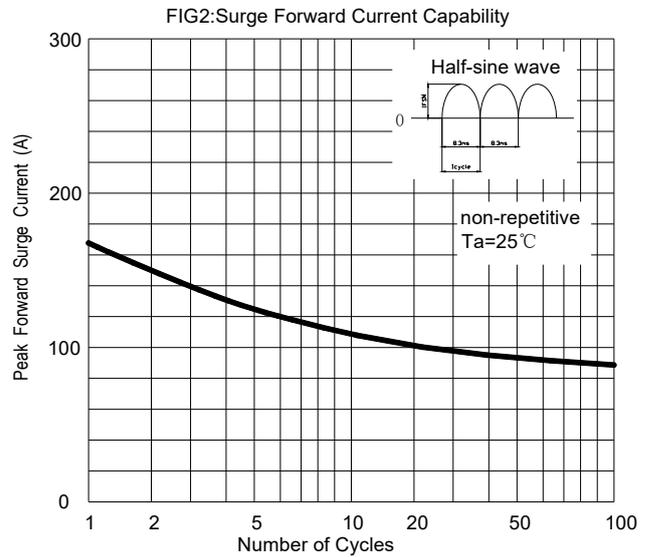


Fig.3 - Typical reverse characteristics

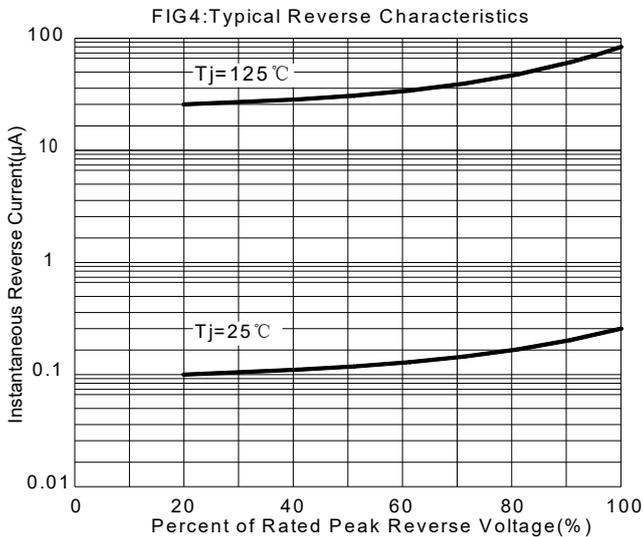
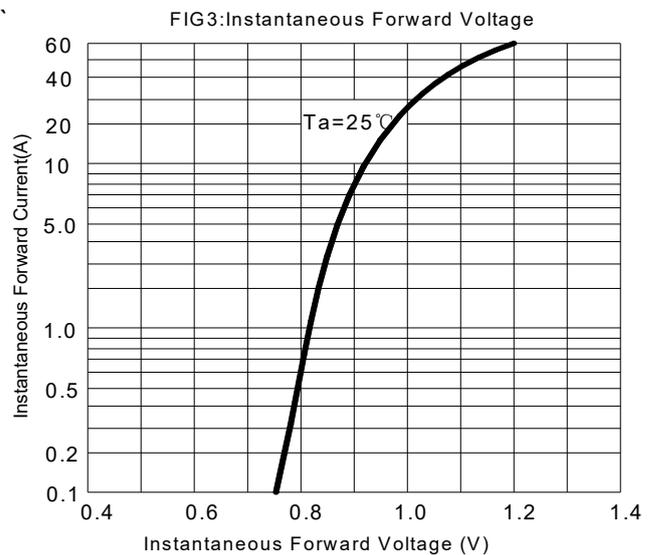


Fig. 4 - Typical forward characteristics





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