

KBU8005G THRU KBU810G

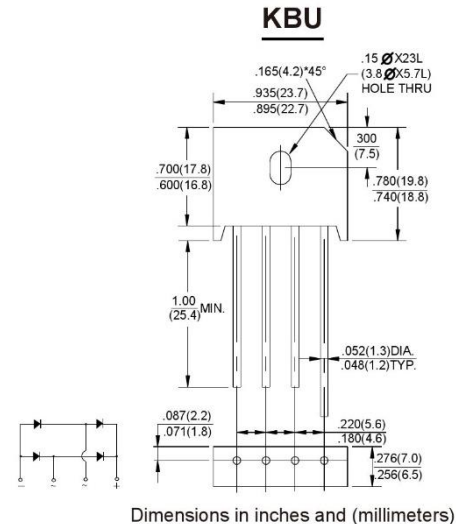
Voltage Range 50 to 1000 V
Current 8.0 Ampere

FEATURES

- Ideal for printed circuit boards
- High surge current capability
- Low forward voltage drop
- Glass passivated chip

MECHANICAL DATA

- Case: Molded plastic, KBU
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202, method 208
- Polarity: As marked on body



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%.

Parameter	Symbol	KBU 8005G	KBU 801G	KBU 802G	KBU 804G	KBU 806G	KBU 808G	KBU 810G	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 @ $T_C=100^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	300							A
Maximum instantaneous forward drop per diode @ $I_F=8.0\text{A}$	V_F	1.0							V
Maximum DC reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	10 1000							μA
Typical junction capacitance per diode (Note1)	C_J	250							pF
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150							$^\circ\text{C}$

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTICS CURVES KBU8005G THRU KBU810G

Fig.1 - Forward Current Derating Curve

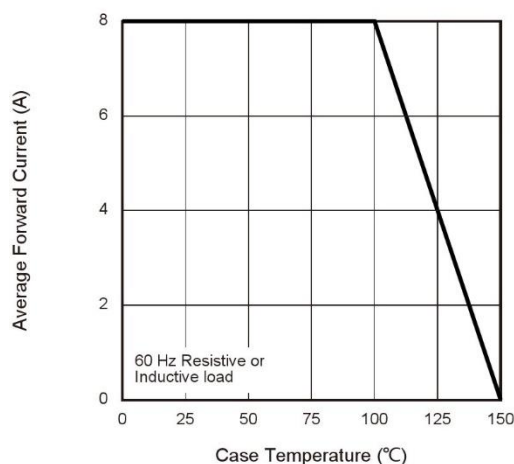


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

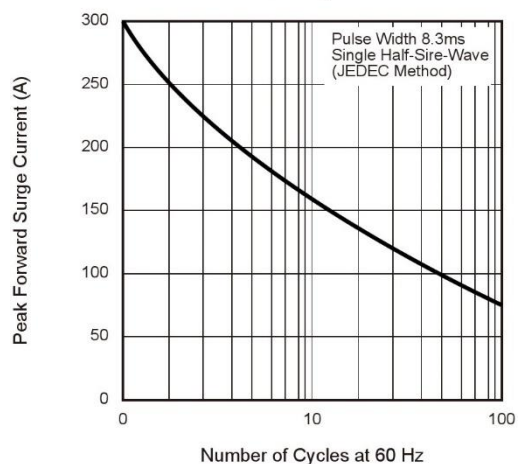


Fig.3 - Typical Instantaneous Forward Characteristics

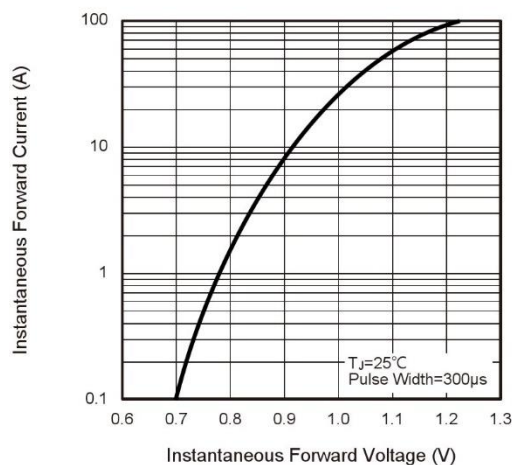


Fig.4 - Typical Reverse Leakage Characteristics

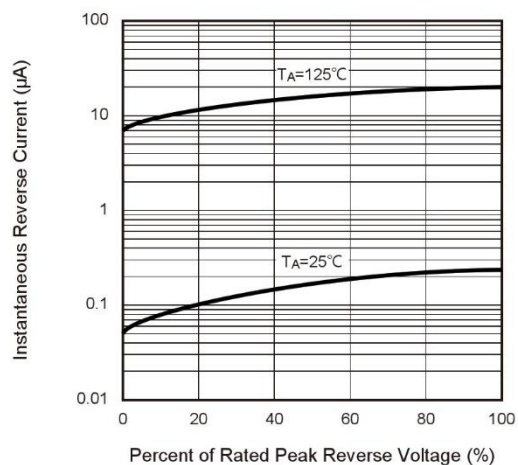
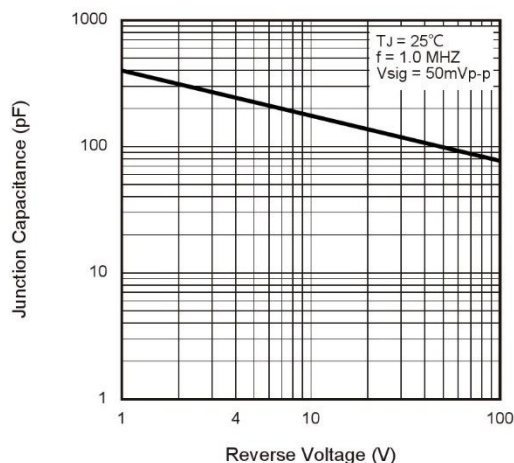


Fig.5 - Typical Junction Capacitance



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