



KBU8005G THRU KBU810G

Glass Passivated Bridge Rectifier

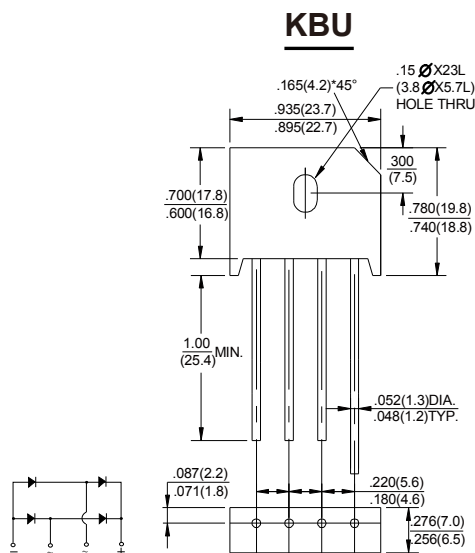
Features

- ★ 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

Voltage Range 50 to 1000 V
Current 8.0 Ampere



Dimensions in inches and (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%.

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°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 =8.0A	V _F	1.0							V
Maximum DC reverse current at rated DC blocking voltage @T _A =25°C @T _A =125°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							°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

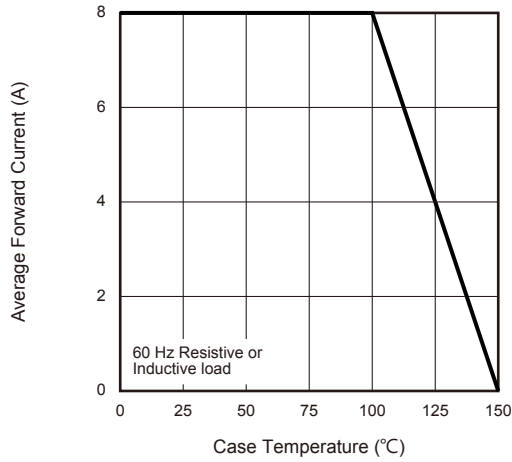


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

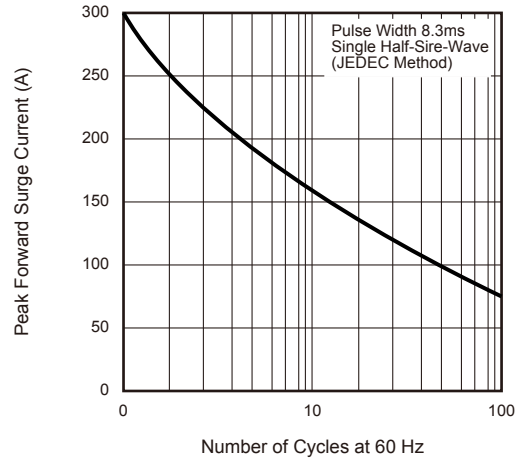


Fig.3 - Typical Instantaneous Forward Characteristics

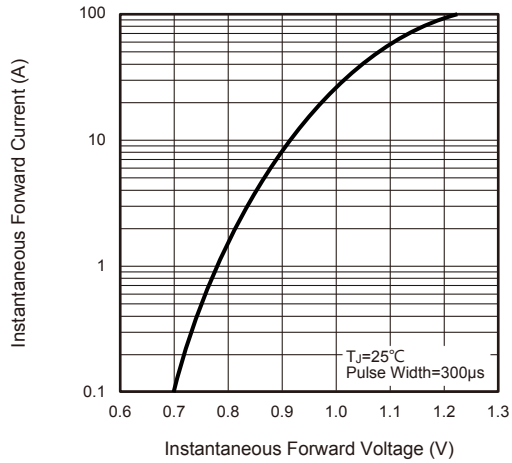


Fig.4 - Typical Reverse Leakage Characteristics

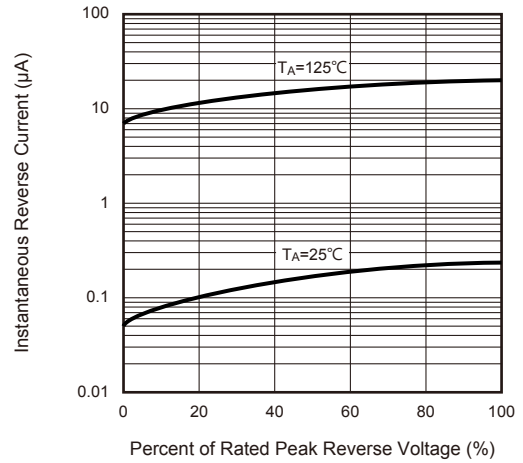


Fig.5 - Typical Junction Capacitance

