YENYO

KBU6005G THRU KBU610G

Glass Passivated Bridge Rectifier

Voltage Range 50 to 1000 V
Current 6.0 Ampere

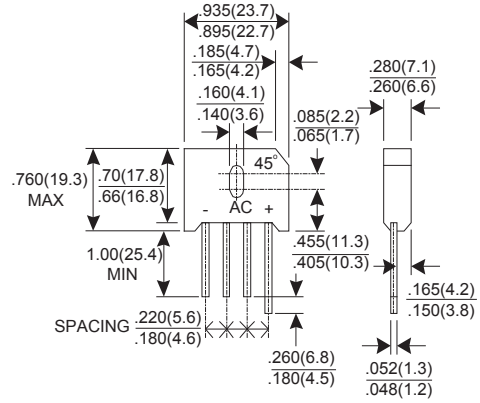
Features

- ✶ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ✶ High surge current capability
- ✶ Ideal for printed circuit boards

Mechanical Data

- ✶ Case: Molded plastic body over passivated junctions
- ✶ Terminals: Solderable per MIL-STD-202, method 208
- ✶ Polarity: As marked on body
- ✶ Mounting position: Any
- ✶ Weight: 8.0 grams

KBU



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%.

PARAMTER	SYMBOL	KBU 6005G	KBU 601G	KBU 602G	KBU 604G	KBU 606G	KBU 608G	KBU 610G	UNIT
Maximum Recurrent 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	$I_{(AV)}$	6.0							A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	170							A
Maximum Instantaneous Forward Voltage @ 6.0 A	V_F	1.1							V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=125°C	I_R	5.0 500							uA uA
Typical junction Capacitance (Note 1)	$R_{\theta JA}$	8.6							°C/W
Operating Junctionand Storage Temperature Range	T_J, T_{STG}	-55 to + 150							°C

NOTES : (1) Thermal Resistance form junction to case mounted on P.C.B with 0.5 x 0.5"(13x13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES KBU6005G THRU KBU610G

FIG.1 - FORWARD CURRENT DERATING CURVE

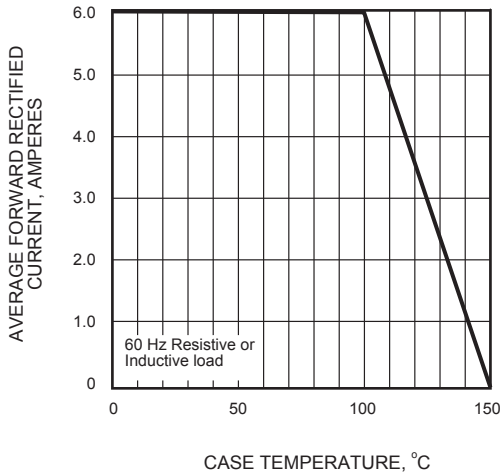


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

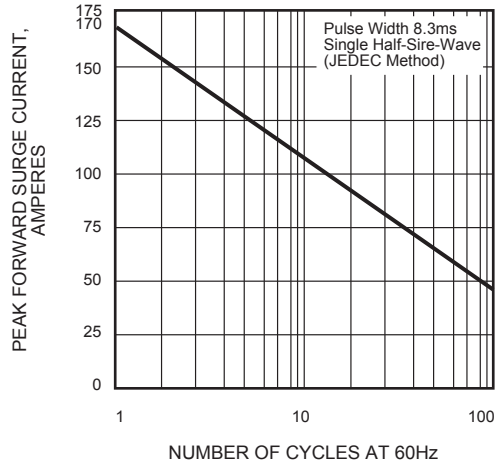


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

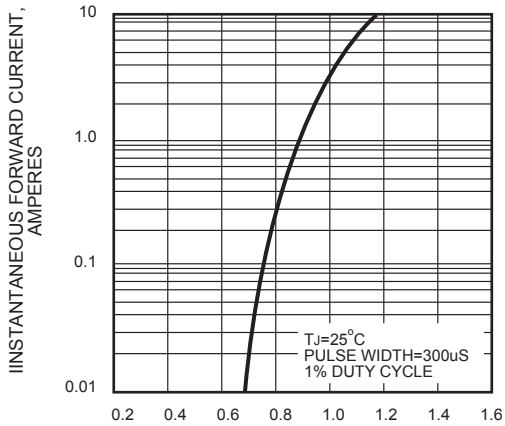


FIG.4 - TYPICAL REVERSE CHARACTERISTICS