



KBJ601G THRU KBJ610G

CLASS PASSIVATED SINGLE - PHASE BRIDGE RECTIFIERS



FEATURES

- * Plastic Package has Underwriters Laboratory Flammability Classification 94V - 0
- * Ideal for printed circuit boards
- * Glass passivated chip junction
- * High Surge Current Capability
- * High temperature Soldering Guaranteed
260°C/10 Seconds, 0.375(9.5mm) lead length

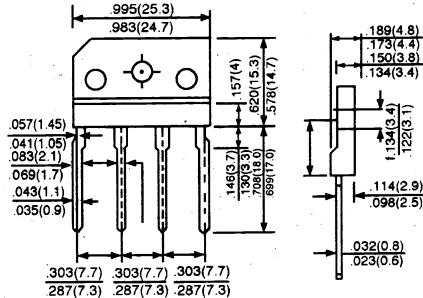
MECHANICAL DATA

- * Case: Moled plastic body over passivated junctions

VOLTAGE RANGE

50 to 1000 Volts
CURRENT
6.0 Amperes

KBJ



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SYMBOLS	KBJ 601G	KBJ 602G	KBJ 604G	KBJ 606G	KBJ 608G	KBJ 610G	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum average forward $T_C = 100^\circ\text{C}$ (NOTE 1) rectified output current $T_A = 40^\circ\text{C}$ (NOTE 2)	$I_{F(AV)}$	6 2.8						A
Peak forward surge current 8.3ms single half sine - wave superimposed on rated load (JEDED Method)	I_{FSM}	150						A
Maximum instantaneous forward drop per element at 6.0A	V_F	1.1						V
Maximum DC revers current at rated $T_A = 25^\circ\text{C}$ DC blocking Voltage per element $T_A = 100^\circ\text{C}$	I_R	5.0 500						μA
Typical junction capacitance (NOTE 3)	C_J	80						pF
Typical thermal resistance per leg (NOTE 1)	$R_{\theta JC}$	3.4						$^\circ\text{C/W}$
Operation Temperate and storage temperature range	T_J, T_{STG}	- 55 to + 150						$^\circ\text{C}$

- NOTES: 1. Unite case mounted on 2.95 × 2.95 × 0.06" (75 × 75 × 1.6mm) Cu plate heatsink
2. Unit mounted on P. C. B 0.5 × 0.5" (12 × 12mm) copper pads and 0.375" (9.5mm) lead length
3. Measured at 1MHz and applied reverse Voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES

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FIG. 1 – FORWARD OUTPUT
CURRENT DERATING CURVE

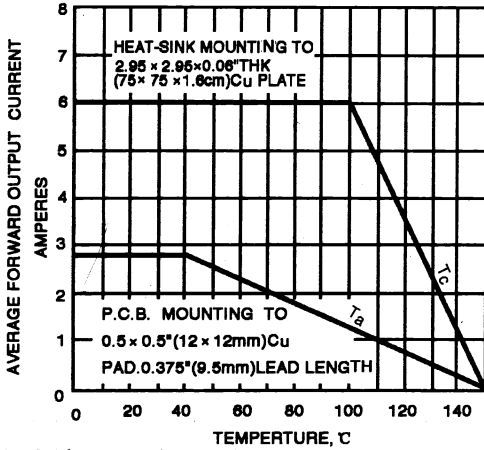


FIG. 2 – MAXIMUM NON – REPETITIVE
FORWARD SURGE CURRENT – PER ELEMENT

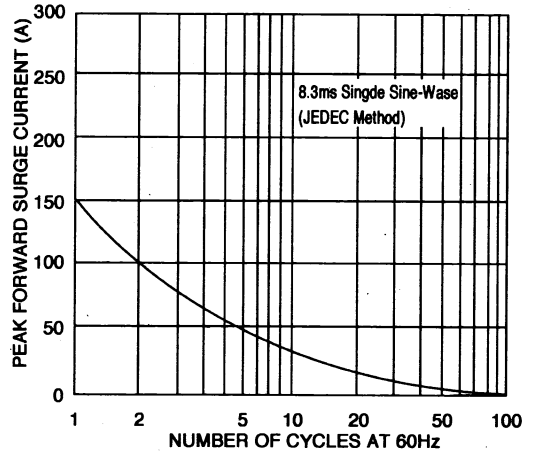


FIG. 3 – TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS – PER ELEMENT

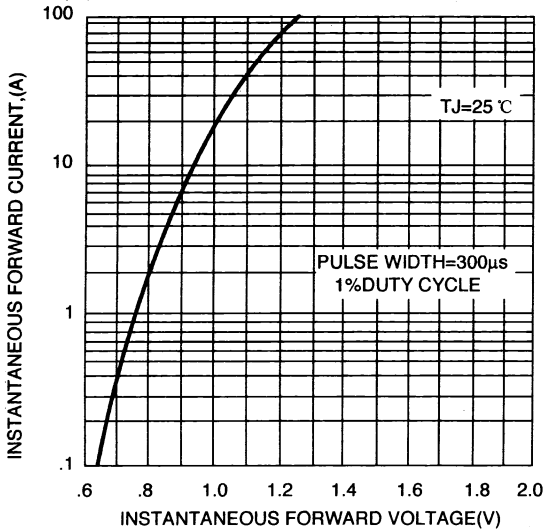


FIG. 4 – TYPICAL REVERSE
CHARACTERISTICS – PER ELEMENT

