



### FEATURES

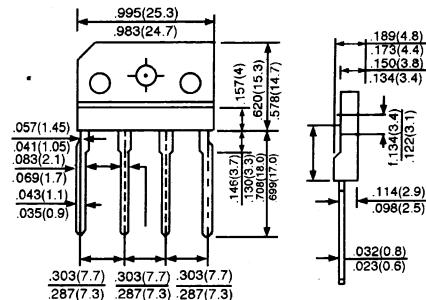
- \* Plastic Package has Underwriters Laboratory Flammability Classification 94V - 0
- \* Ideal for printed circuit boards
- \* Glass passivated chip junction
- \* High Surge Current Capability
- \* High temperature Soldering Guaranteed 260°C/10 Seconds, 0.375(9.5mm) lead length

### MECHANICAL DATA

- \* Case: Molded plastic body over passivated junctions

Reverse Voltage 100 to 1000 Volts  
Forward Current 4.0A

**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 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Maximum average forward T <sub>C</sub> = 100°C (NOTE 1) rectified output current T <sub>A</sub> = 40°C (NOTE 2)	I <sub>F(AV)</sub>				4 2.3			A
Peak forward surge current 8.3ms single half sine - wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>				120			A
Maximum instantaneous forward drop per element at 4.0A	V <sub>F</sub>				1.1			V
Maximum DC reverse current at rated T <sub>A</sub> = 25°C DC blocking Voltage per element T <sub>A</sub> = 125°C	I <sub>R</sub>				5.0 500			μA
Typical junction capacitance (NOTE 3)	C <sub>J</sub>				45			pF
Typical thermal resistance per leg (NOTE 1)	R <sub>OJC</sub>				5.5			°C/W
Operation Temperate and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>				- 65 to + 150			°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

KBJ401G THRU KBJ410G

FIG. 1 – FORWARD CURRENT DERATING CURVE

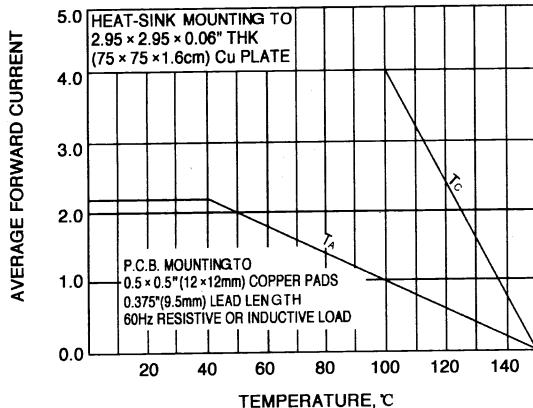


FIG.2 – MAXIMUM NON – REPETITIVE  
FORWARD SURGE CURRENT – PER ELEMENT

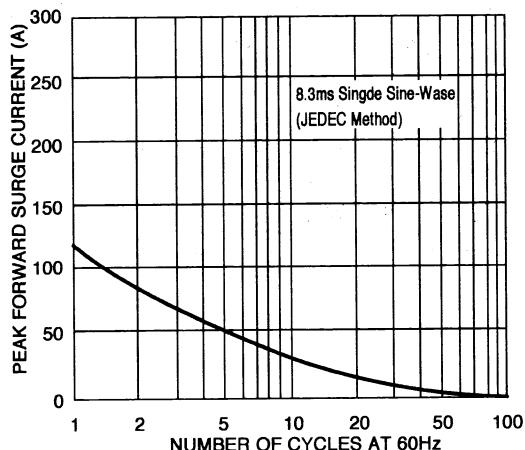


FIG.3 – TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS – PER ELEMENT

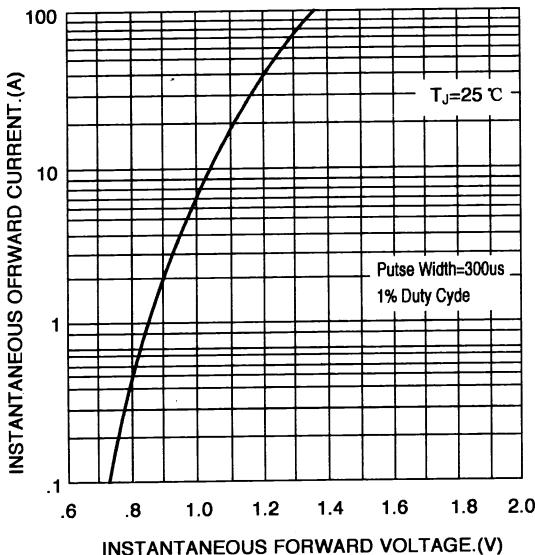


FIG.4 – TYPICAL REVERSE  
CHARACTERISTICS – PER ELEMENT

