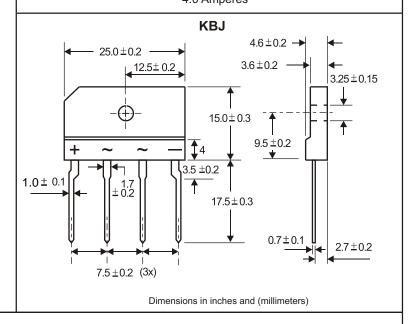




FEATURES

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting position: Any

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER		KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 1)		6.0							
Rectified Current at Tc=110°C (Without heatsink)		2.8							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		150							Α
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.		1.0							V
Maximum DC Reverse Current	Ta=25℃	5.0					μА		
at Rated DC Blocking Voltage	Ta=100°C				500				μА
Typical Thermal Resistance R Jc (Note 2)		3.4							°C/W
Typical Thermal Resistance R JL (Note 3)		5.0							°C/W
Operating Temperature Range, TJ		-55 — + 150							°C
Storage Temperature Range, Тятс		-55 —+150							°C

NOTES

- 1. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.
- 2. Thermal Resistance from Junction to Case with device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.
- 3. Thermal Resistance from Junction to Lead without Heatsink.

REV 1.0 2022 JAN PAGE:1/2

RATING AND CHARACTERISTIC CURVES (KBJ6005 THRU KBJ610)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

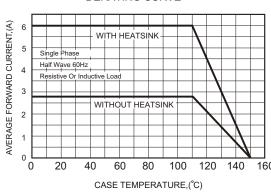


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

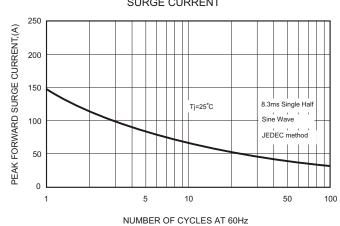


FIG.3-TYPICAL FORWARD

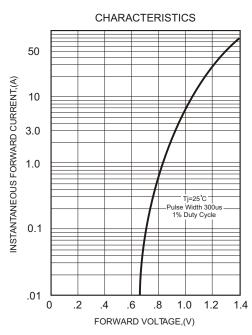


FIG.4-TYPICAL REVERSE

