

KBJ4005 THRU KBJ410

SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS



FEATURES

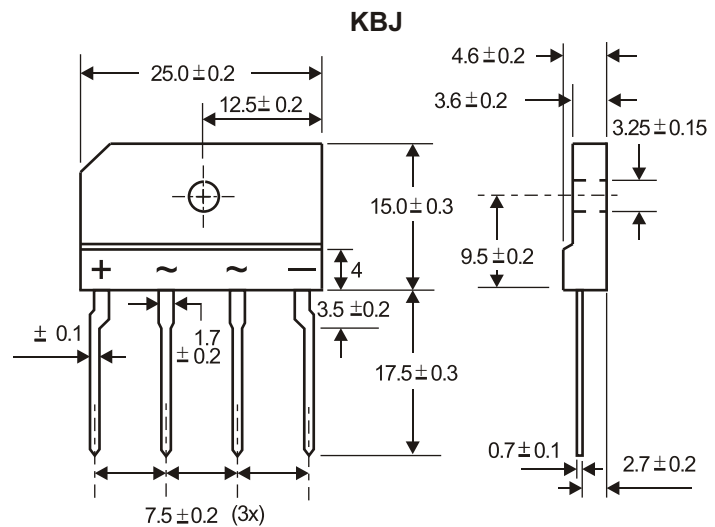
- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting position: Any

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

4.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	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)								4.0
Rectified Current at Tc=110°C (Without heatsink)								2.4
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								120
Maximum Forward Voltage Drop per Bridge Element at 2.0A D.C.								1.0
Maximum DC Reverse Current Ta=25°C								5.0
at Rated DC Blocking Voltage Ta=100°C								500
Typical Thermal Resistance R _{jc} (Note 2)								5.5
Typical Thermal Resistance R _{jl} (Note 3)								6.0
Operating Temperature Range, T _J								-55 — +150
Storage Temperature Range, T _{STG}								-55 — +150

NOTES

1. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.
2. Thermal Resistance from Junction to Case with device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.
3. Thermal Resistance from Junction to Lead without Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ4005 THRU KBJ410)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

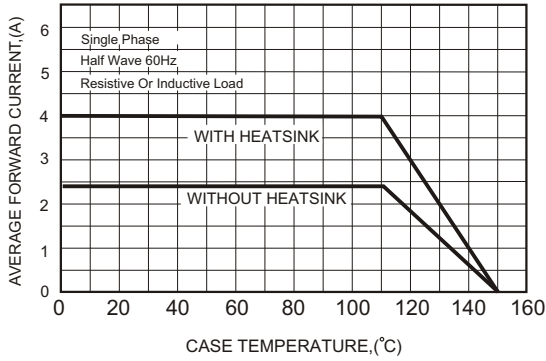


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

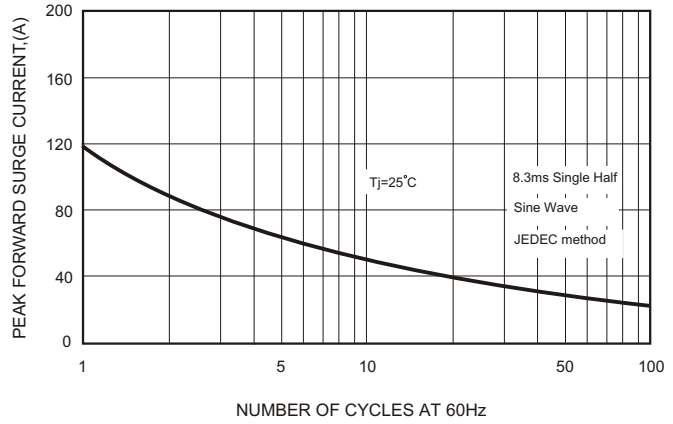


FIG.3-TYPICAL FORWARD CHARACTERISTICS

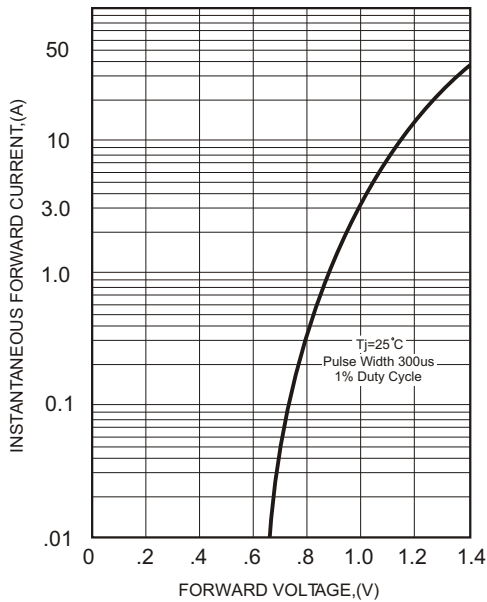
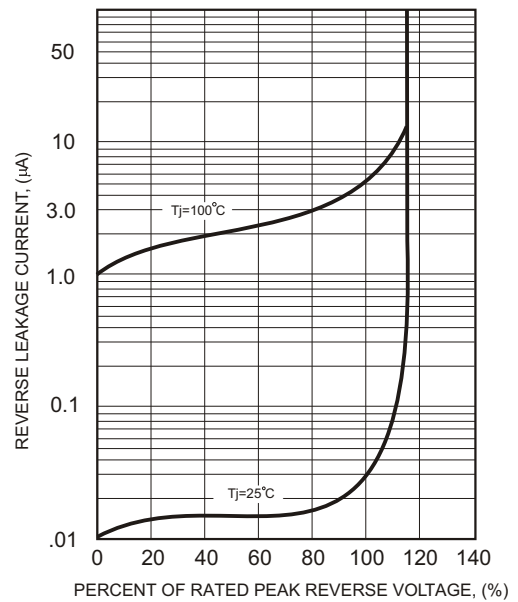


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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