

KBJ4005 THRU KBJ410

SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURE

. UL Listed Under Recognized Component Index, File Number E338195

- . Glass passivated chip junctions
- . High case dielectric stength
- . Low Reverse Leakage Current
- . High surge current capability
- . Ideal for Printed Circuit Board Applications

MECHANICAL DATA

. Case: KBJ

. Case Material: Molded Plastic.

UL Flammability Classification Rating 94V-0

. Terminals: Pure tin plated, Lead free.

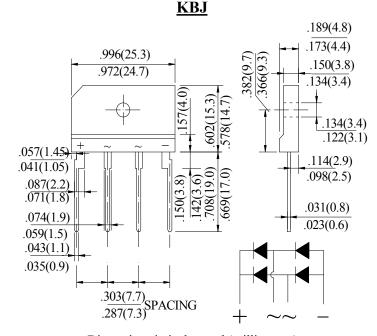
Leads solderable per MIL-STD-750, Method 2026.

. Polarity: Molded on Body

. Mounting: Through Hole for #6 Screw

. Mounting Torque: 5.0 in-lbs Maximum

. Weight: 4.3 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 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	SYM BOL	KBJ 4005	KBJ 401	KBJ 402	KBJ 404	KBJ 406	KBJ 408	KBJ 410	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note2) Rectified Current @ T _C =115°C(without heatsink)		4.0 2.6							A
Peak Forward Surge Current 8.3ms single has sine-wave superimposed on rate load (JEDE method)					120				A
Maximum Forward Voltage @ 4.0A Drop per element @ 2.0A	V _E	1.1 1.0						V	
Maximum DC Reverse Current $@T_J = 2$ at rated DC blocking voltage $@T_J = 12$	/ D	5.0 500.0							μА
I ² t Rating for Fusing (t < 8.3ms)	I ² t				59.7				A ² Sec
Typical Junction Capacitance (Note 1)		40							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	5.5							°C/W
Storage Temperature		-55 to +150							°C
Operating Junction Temperature		-55 to +150							°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2.Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ4005 THRU KBJ410)

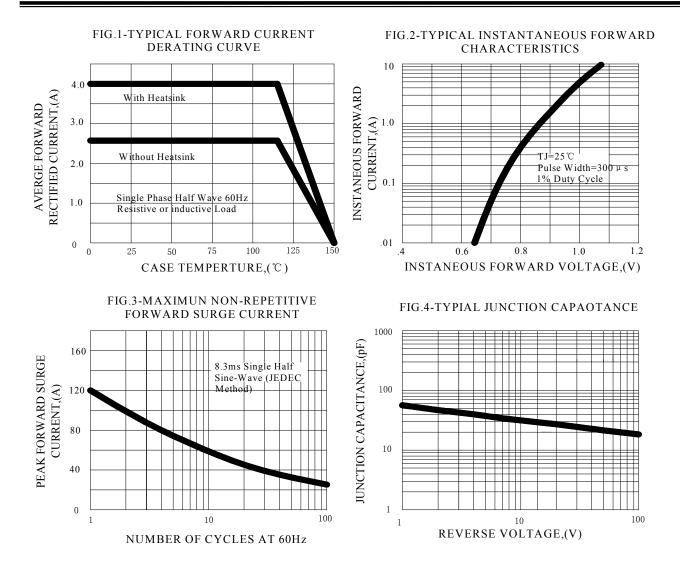
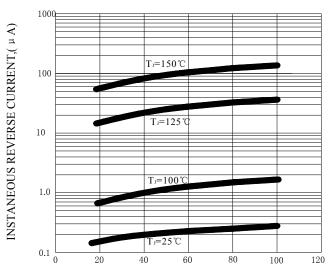


FIG.5-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)