

KBJ406 THRU KBJ410

SINGLE PHASE4.0AMPS.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
- **KBJ** .189(4.8) .173(4.4) .996(25.3) .150(3.8).972(24.7) marking .134(3.4)157(4.0) 602(15.3) 578(14.7) $\overline{.134(3.4)}$.122(3.1) .114(2.9).142(3.6) 358(9.1) .374(9.5) 669(17.0) .098(2.5) .087(2.2).071(1.8).031(0.8) .074(1.9).023(0.6) .059(1.5) .043(1.1) .035(0.9).303(7.7) .287(7.3) SPACING

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	IZD 1404	L/D 1400	IZD 1410	unita
Type Number	BOL	KBJ406	KBJ408	KBJ410	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	600	800	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	420	560	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	600	800	1000	V
Maximum Average Forward (with heatsink Note2)	I _{F(AV)}	4.0			
Rectified Current @ T _C =115°C(without heatsink)			2.4		A
Peak Forward Surge Current 8.3ms single half					
sine-wave superimposed on rate load (JEDEC	I_{FSM}	150		A	
method)					
Maximum Forward Voltage @ 4.0A DC	$V_{ m F}$		1.1		V
Drop per element @ 2.0A DC	V F		1.0		v
Maximum DC Reverse Current @T _J =25°C	1		5.0		
at rated DC blocking voltage @T _J =125°C	I_{R}	500.0		μΑ	
I ² t Rating for Fusing (t < 8.3ms)	<i>I</i> ² t	93		A ² Sec	
Typical Junction Capacitance (Note 1)	CJ	40		pF	
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	5.5		°C/W	
Storage Temperature	$T_{ m STG}$	-55 to +150			°C
Operating Junction Temperature	$T_{ m J}$	-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

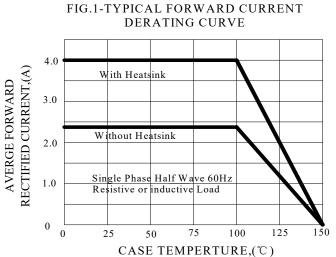


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

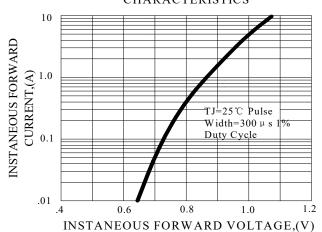


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

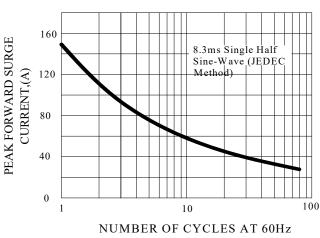


FIG.4-TYPIAL JUNCTION CAPACITANCE

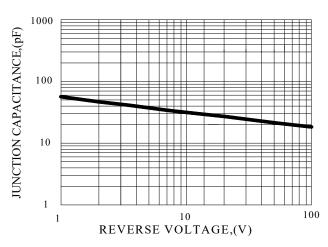
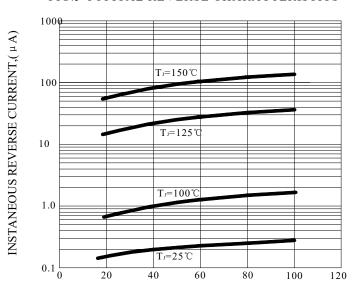


FIG.5-TYPICAL REVERSE CHARACTERISTICS

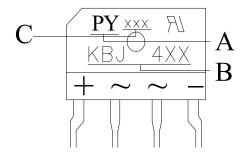


PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)



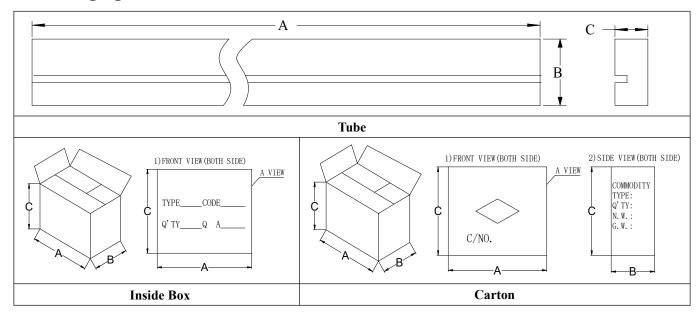
Marking and packaging illustration

1. Marking



SYMBOL	Explanation	
A	Trademark	
В	Product Name	
C	Date code	

2. Packaging



OUTLINE	A (mm)	B (mm)	C (mm)
Tube	530±3	42±3	8±0.5
Inner box	540±3	90±3	100±3
Carton	550±5	190±5	310±5

COUNT	TUBE (PCS)	BOX (PCS)	CARTON (PCS)
КВЈ	20	400	2400