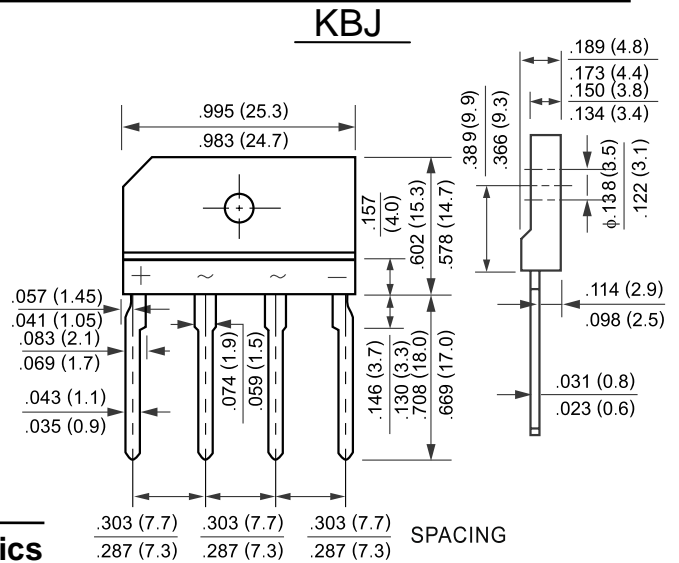


KBJ4005G thru KBJ410G

4.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Surge overload rating -150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position: Any
- Weight: 0.151 ounces , 4.27 grams



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. **Dimensions in inches and (millimeters)**
 Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	KBJ 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _c =100°C (without heatsink)	I _(AV)					4.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}					150				A
Maximum Forward Voltage at 4.0A DC	V _F					1.1				V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R					10.0				uA
I ² t Rating for Fusing (t<8.3ms)	I ² t					93				A ² s
Typical Junction Capacitance Per Element (Note1)	C _J					45				pF
Typical Thermal Resistance (Note2)	R _{θJC}					2.2				°C/W
Operating Temperature Range	T _J					-55 to +150				°C
Storage Temperature Range	T _{STG}					-55 to +150				°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Device mounted on 50mm*50mm*1.6mm cu plate heatsink.

KBJ4005G thru KBJ410G

4.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

FIG.1-FORWARD CURRENT DERATING CURVE

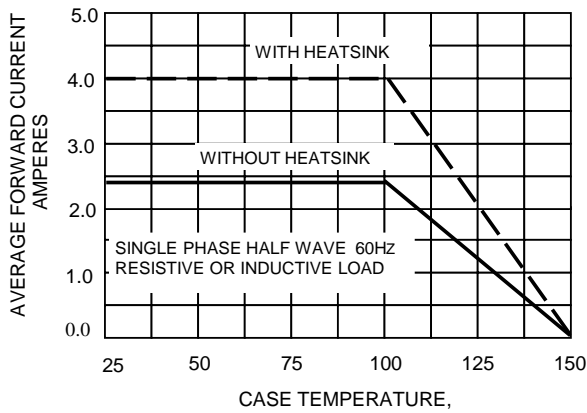


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

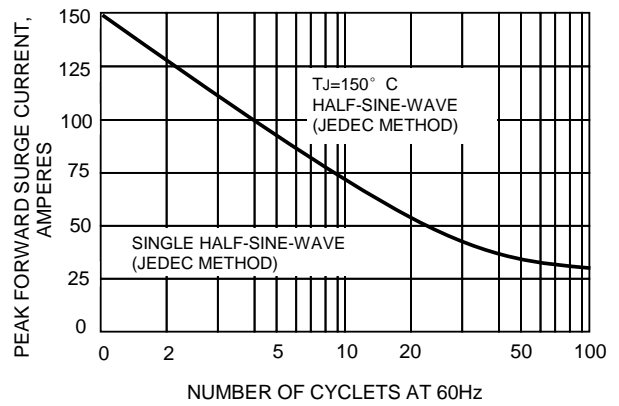


FIG.3-TYPICAL FORWARD CHARACTERISTICS

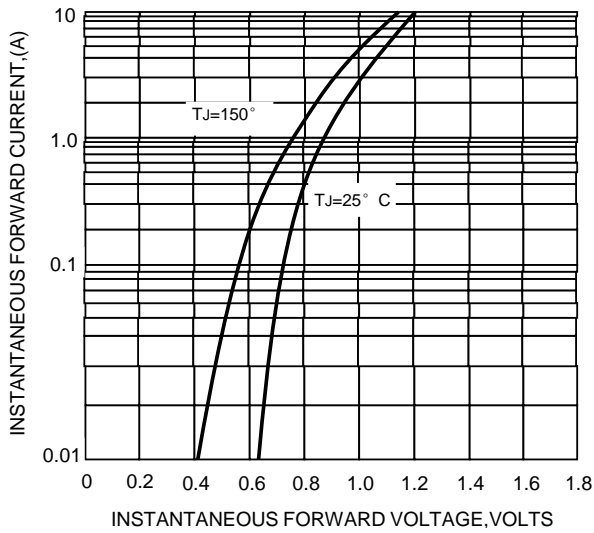


FIG.4-TYPICAL REVERSE CHARACTERISTICS

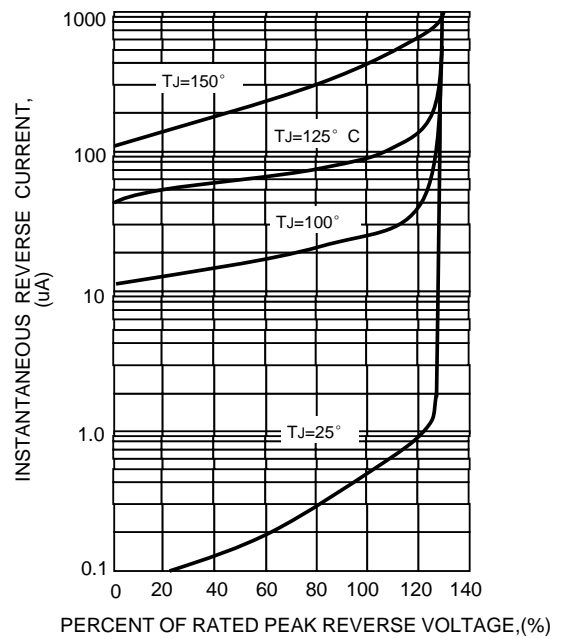
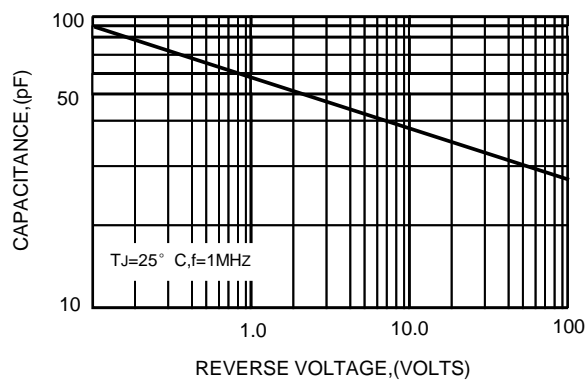


FIG.5-TYPICAL JUNCTION CAPACITANCE



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