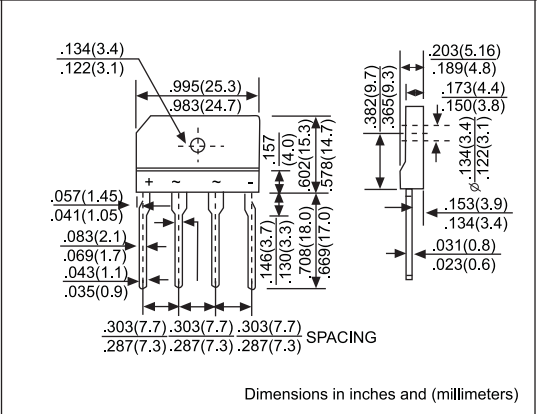


GBJ/KBJ4005 THRU GBJ/KBJ410

SINGLE PHASE 4.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS	Voltage Range 50 to 1000 Volts Current 4.0 Amperes
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- FEATURES**
- UL Recognized File # 230084
 - Surge overload rating - 50 amperes peak
 - Ideal for printed circuit board
 - Plastic material has Underwriters Laboratory Flammability Classification 94V-0
 - Mounting Position:Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 50Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBJ KBJ 4005	GBJ KBJ 401	GBJ KBJ 402	GBJ KBJ 404	GBJ KBJ 406	GBJ KBJ 408	GBJ KBJ 410	UNITS	
Maximum Repetitive 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 Rectified Current@T _c = 100°C (without heatsink)	I _{F(AV)}					4.0 2.4				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}					120				A
Maximum Instantaneous Forward Voltage Drop Per leg @2.0A	V _F					1.0				V
Maximun DC Reverse Current at Rated DC Blocking Voltage	I _R					5.0 500				uA
I ² t Rating for fusing (t<8.3ms)	I ² t					93				A ² S
Typical Junction Capacitance per Leg (Note 1)	C _J					45				pF
Typical Thermal Resistance (Note 2)	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 4.0 V DC.
2. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES GBJ/KBJ4005 thru GBJ/KBJ410

FIG.1 - FORWARD CURRENT DERATING CURVE

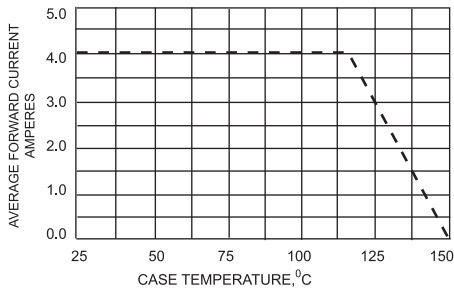


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

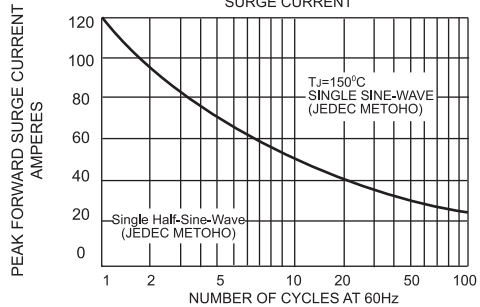


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

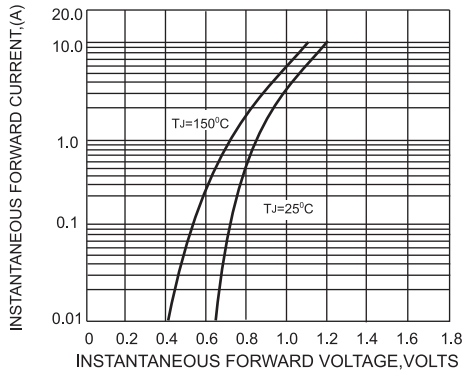


FIG.5-TYPICAL REVERSE CHARACTERISTICS

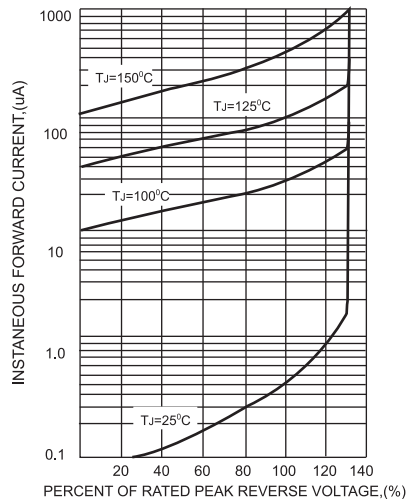


FIG.4-TYPICAL JUNCTION CAPACITANCE

