

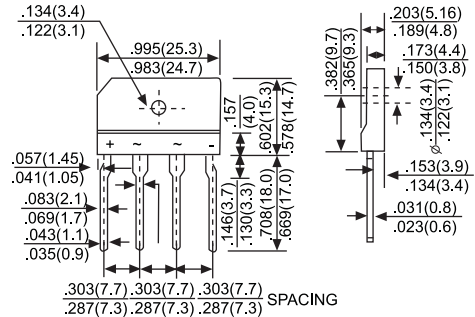
GBJ/KBJ4005 THRU GBJ/KBJ410

**SINGLE PHASE 4.0AMPS.
GLASS PASSIVATED BRIDGE
RECTIFIERS**

**Voltage Range
50 to 1000 Volts
Current
4.0 Amperes**

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



Dimensions in inches and (millimeters)

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 (with heatsink Note 2) 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
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0 500							μA
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

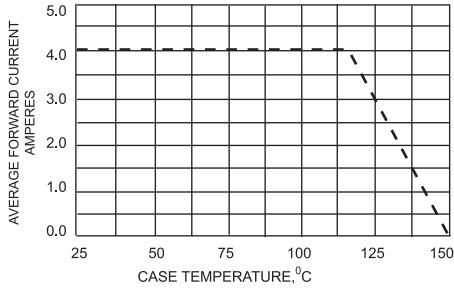


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

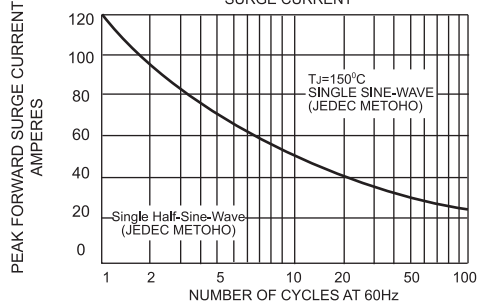


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

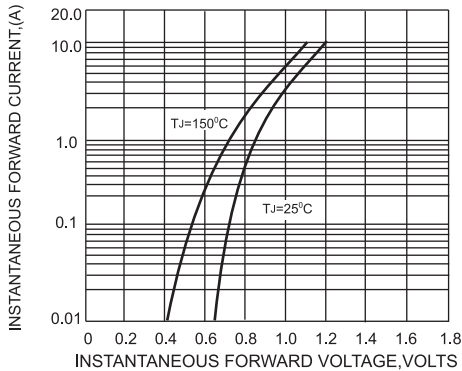


FIG.5-TYPICAL REVERSE CHARACTERISTICS

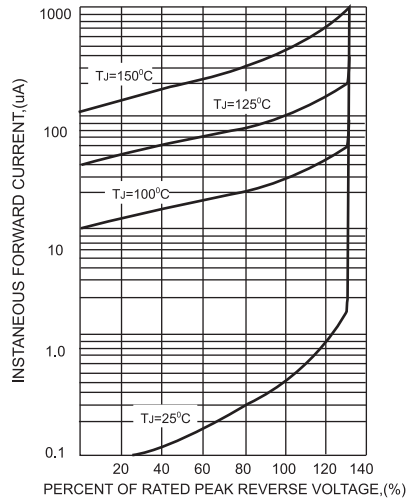


FIG.4-TYPICAL JUNCTION CAPACITANCE

