

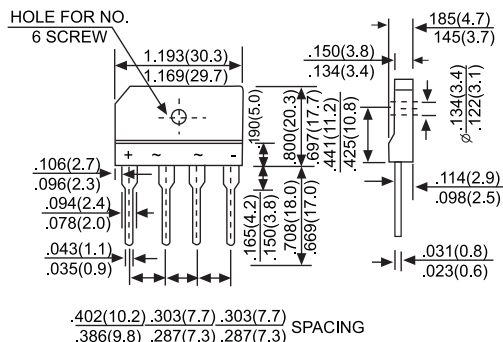
GBJ/KBJ2005 THRU GBJ/KBJ2010

SINGLE PHASE 20AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
20 Amperes

FEATURES

- UL Recognized File # E-230084
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The Plastic material has UL flammability classification 94 V-0



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	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	UNITS
		KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	
		20005	2001	2002	2004	2006	2008	2010	
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)}				20.0 3.6				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}				240				A
Maximum Instantaneous Forward Voltage Drop Per Leg@10.0A	V _F				1.05				V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C T _J = 125°C	I _R				10 500				uA
I ² t Rating for fusing (t<8.3ms)	I ² t				240				A ² S
Typical Junction Capacitance per Leg (Note 1)	C _J				60				pF
Typical Thermal Resistance(Note 2)	R _{θJC}				0.8				°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 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

GBJ/KBJ20005 THRU GBJ/KBJ2010

FIG.1 - FORWARD CURRENT DERATING CURVE

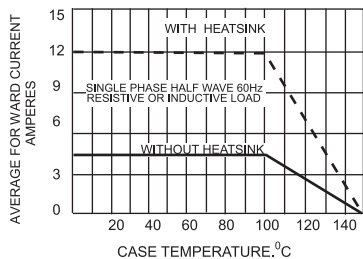


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

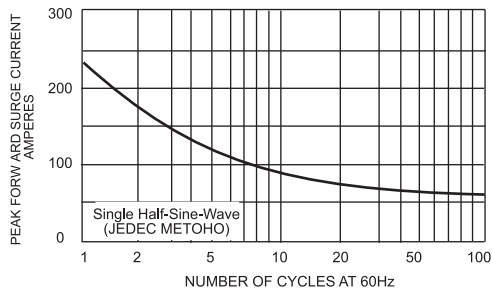


FIG.3 - TYPICAL JUNCTION CAPACITANCE

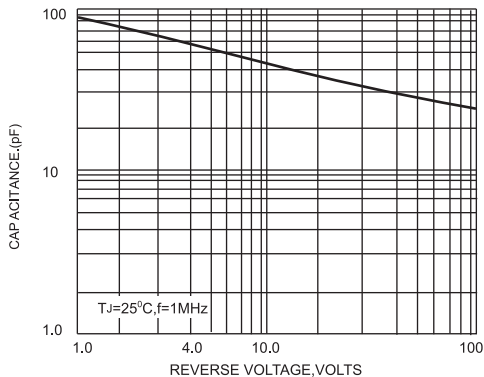


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

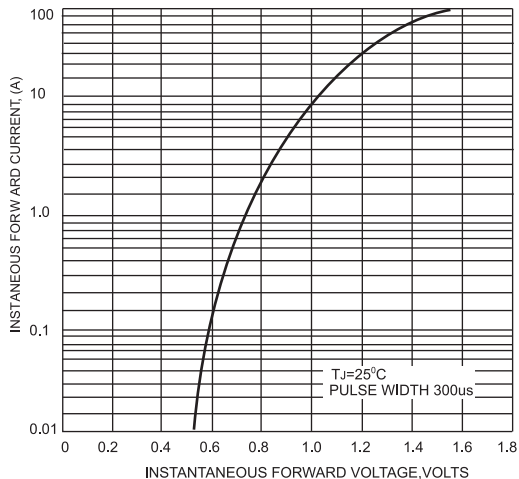


FIG.5-TYPICAL REVERSE CHARACTERISTICS

