

SINGLE PHASE GLASS PSSIVATED BRIDGE RECTIFIER

GBJ10005 THRU GBJ	GBJ1010	VOLTAGE RANGE	50 to 1000 Volts		
ODJIUUUJ IIIKU ODJ		CURRENT	10.0 Ampere		

FEATURES

- Plastic package has UL flammability Classification 94V – 0
- Glass passivated chip junction
- High case dielectric strength of 1500 V_{RMS}
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260 °C /10 seconds, 0.375" (9.5mm) lead length

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750 Method 2026
- Mounting position: any (Note 3)
- Mounting Torque: 6 in-lbs max.
- Weight: 0.26 ounce, 7.4 gram

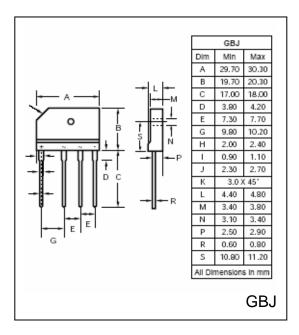
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^oC ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current,	At $T_{C} = 100^{\circ}C$ (Note 1) At TA = 25°C (Note 2)	I _(AV)	<u> </u>							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	185						Amps	
Rating for Fusing (t<8.3mS)		I ² t	142						A ² s	
Maximum Instantaneous Forward Voltage drop per Bridge element 5.0A		$V_{\rm F}$	1.0					Volts		
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{o}C$ DC Blocking Voltage per element $T_A = 125 \ ^{o}C$		I _R	10 250						μΑ	
Typical Junction Capacitance, per leg (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C _J	60					pF		
Typical Thermal Resistance (Note 2 and 3)		$R_{\theta JA}$	22						^o C/W	
Operating Junction Temperature Range		TJ	(-55 to +150)						°C	
Storage Temperature Range		T _{STG}	(-55 to +150)						°C	

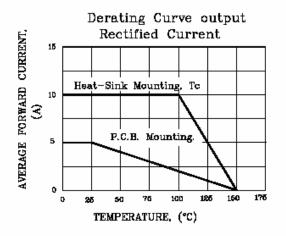
Notes:

- 1. Unit mounted on AL Plate heatsink
- 2. Unit mounted on PCB with 0.5" x 0.5" (12mm x 12mm) copper pads on 0.375" (9.5mm) lead length
- 3. Recommended mounting position is to bolt down on heatsink with silicon thermal compound for maximum heat transfer with #6 screw

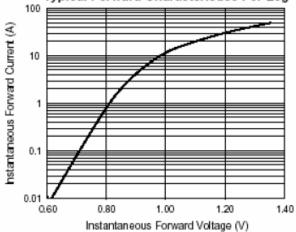




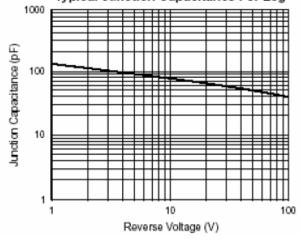
RATINGS AND CHARACTERISTIC CURVES GBJ10005 THRU GBJ1010

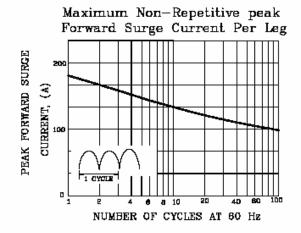


Typical Forward Characteristics Per Leg









Typical Reverse Characteristics Per Leg

