

15 AMPERE SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

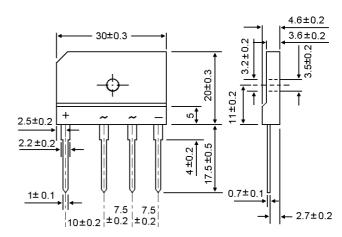
FEATURES

- * Glass Passivated Die Construction
- * Low Reverse Leakage Current
- * High Case dielectric strength 1500 V_{RMS}
- * Ideal for printed circuit boards
- * Surge Overload Rating to 240A Peak

MECHANICAL DATA

- * Case: Molded Plastic
- * Epoxy: UL94V-O rate flame retardant
- * Terminals : Plated Leads Solderable
- Per MIL-STD-202 Method 208
- * Polarity: As Marking on Body
 * Mounting: Through Hole for #6 Screw
- * Mounting: Torque:6.0 In-lbs Maximum
- * Weight: 6.6 grams (approx.)
- * Marking:Type Number

Case Style GBJ



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

- * Rating at 25 ambient temperature unless otherwise specified
- * Single phase, half wave. 60Hz, resistive or inductive load.
- * For capacitive load derate current bh 20 %

Characteristic	Symbo	GBJ15005	GBJ1501	GBJ1502	GBJ1504	GBJ1506	GBJ1508	GBJ15010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$\begin{matrix} V_{RRM} \\ V_{RWM} \\ V_{R} \end{matrix}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectifier Forward Current @ T _C =100	I _{O(AV)}	15							Α
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (note 1)	I _{FSM}	240							Α
Forward Voltage (per element) (I _F =7.5 Amp)	V_{FM}	1.05							V
Peak Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	10 500							uA
I ² t Rating for Fusing(t<8.3 ms)	l ² t	240							A ² s
Typical Junction Capacitance per element(Note2)	C _j	60							pF
Typical Thermal Resistance Junction to Case (note 3)	R _{θ jc}	2.7							k/W
Operating and Storage Temperature Range	T_J , T_stg	-65 to +150							

Note: 1. Non-repetitive for 1>1ms and < 8.3 ms

- 2.Measured at 1.0 Hz and applied reverse voltage 4.0 V DC.
- 3.Thermal resistance junction to case per element, Unit mounted on 300×300×1.0 mm thick AL plate.



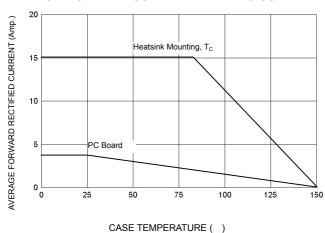
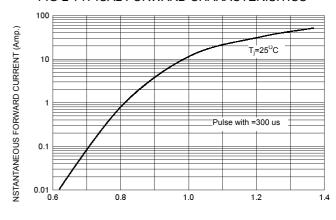
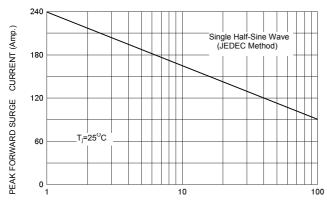


FIG-2 TYPICAL FORWARD CHARACTERISITICS



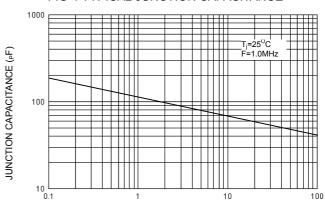
FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 Typical Junction Capacitance Per Leg

