

**Single Phase Glass Passivated Bridge Rectifiers**

**Reverse Voltage: 50V to 1000V  
Forward Current: 35 Amp**

**Features**

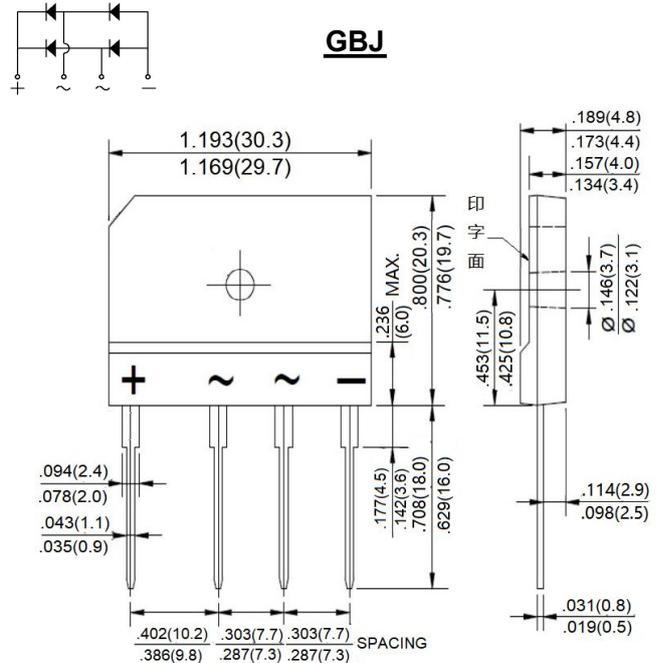
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Solder dip 260°C max. 10 s, per JESD 22-B106

**Mechanical Data**

- **Package:** GBJ  
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Matte tin plated leads,  
solderable per MIL-STD-750, Method 2026
- **Polarity:** Symbol marking on body

**Typical Applications**

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.



Package Outline Dimensions in Inches (Millimeters)

**Maximum Ratings and Electrical Characteristics** (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions		SYM.	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Device marking code			GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (FIG.1)	With heatsink Tc =95°C (Note 2)	Io(AV)	35.0							A
	Without heatsink Ta =25°C (Note 1)		6.8							
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load		IFSM	400							A
A.C.50HZ;r.m.s.;1min		Visol	2500							V
Mounting Torque (Recommended torque:0.5 N.m)		TOR	0.8							N.m
Operating junction range		Tj	-55 to +150							°C
Storage temperature range		TSTG	-55 to +150							°C

**Thermal Characteristics** (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions		SYM.	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)		RθJA	22							°C/W
Maximum Thermal Resistance per Leg, Junction To Case (Note 2)		RθJC	1							°C/W

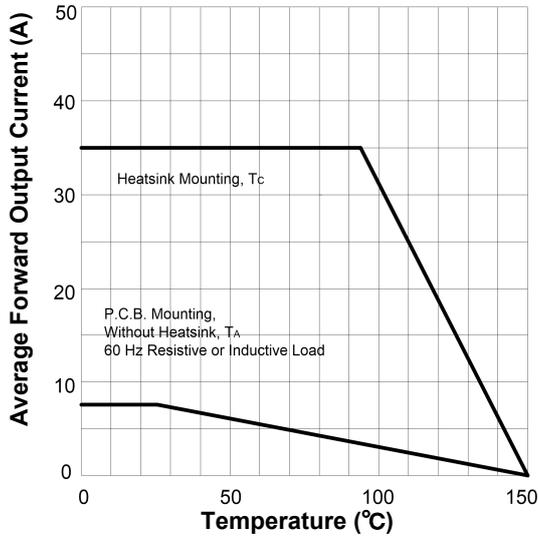
**Electrical Characteristics** (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions		SYM.	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Maximum Instantaneous Forward Voltage per diode	IF=17.5A	VFM	1.10							V
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	IR	5							µA
	TA = 125°C		500							

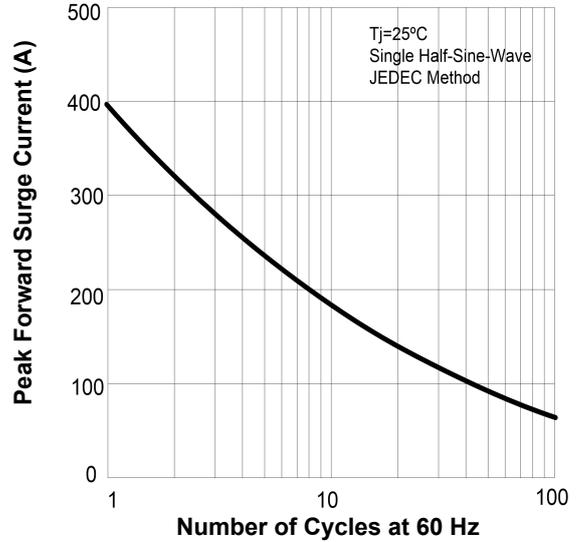
- Notes:
1. Junction to ambient without heatsink.
  2. Junction to case with heatsink.

**Rating and Characteristic Curves**

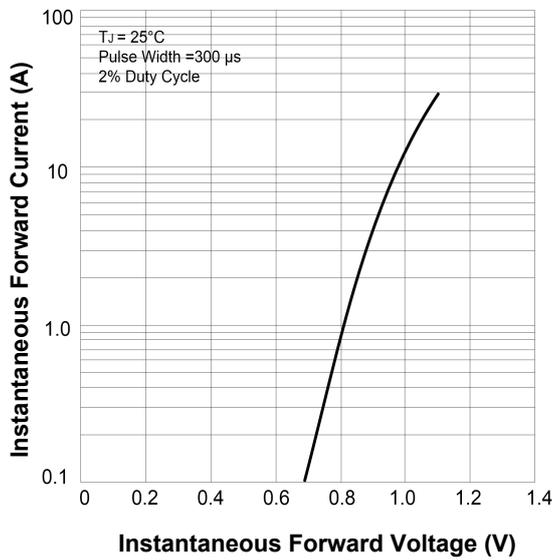
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED**



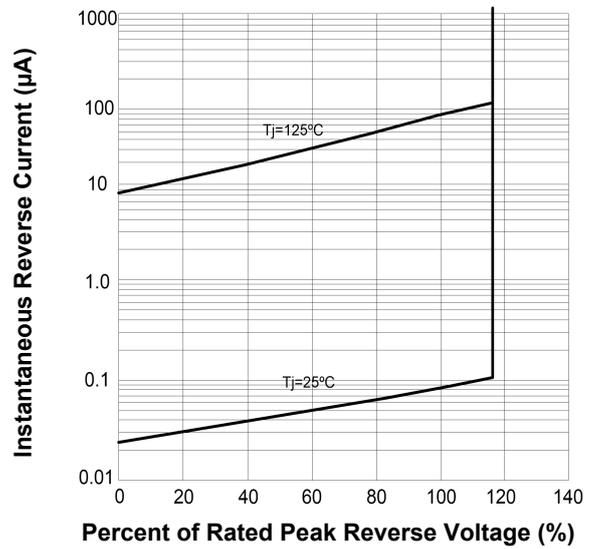
**FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode**



**FIG. 3- TYPICAL FORWARD VOLTAGE**



**FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



The curve above is for reference only.



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