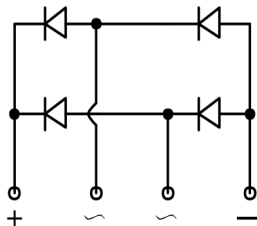
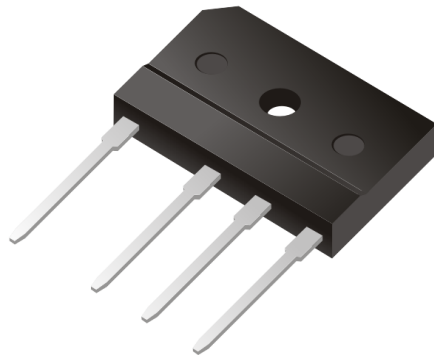


GBJ

Reverse Voltage - 1000 V
Forward Current - 35 A



Features

- Glass passivated chip
- Thin single in-line package
- High surge current capability
- High reliability
- Low forward voltage drop

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package:** GBJ
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBJ3510
Repetitive peak reverse voltage		V_{RRM}	V	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink $T_c=90^{\circ}\text{C}$	I _O	A	35
	Without heatsink $T_a=25^{\circ}\text{C}$			3.5
Surge(non-repetitive)forward current @60HZ half sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$		I _{FSM}	A	380
Current squared time @1ms≤t≤8.3ms $T_j=25^{\circ}\text{C}$, Rating of per diode		I ² t	A ² S	599
Storage temperature		T _{stg}	°C	-55 ~+150
Junction temperature		T _j	°C	-55 ~+150
Dielectric strength @ terminals to case, AC 1 minute		V _{dis}	KV	2.5
Mounting torque @recommend torque: 5kg·cm		T _{or}	kg·cm	8

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ3510
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =17.5A	1.00
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	$V_{RRM} \frac{25^{\circ}\text{C}}{125^{\circ}\text{C}}$	5.0
				300

Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBJ3510
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	22
	Between junction and case, With heatsink	R _{θJ-C}		0.8

Fig.1 Typical Forward Current Derating Curve

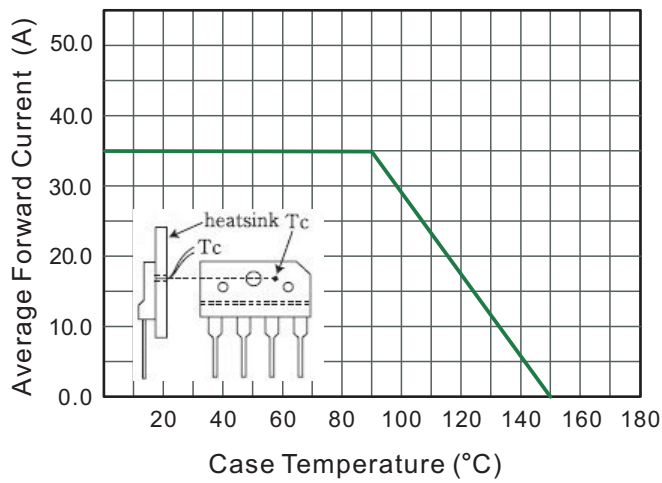


Fig.2 Typical Reverse Characteristics

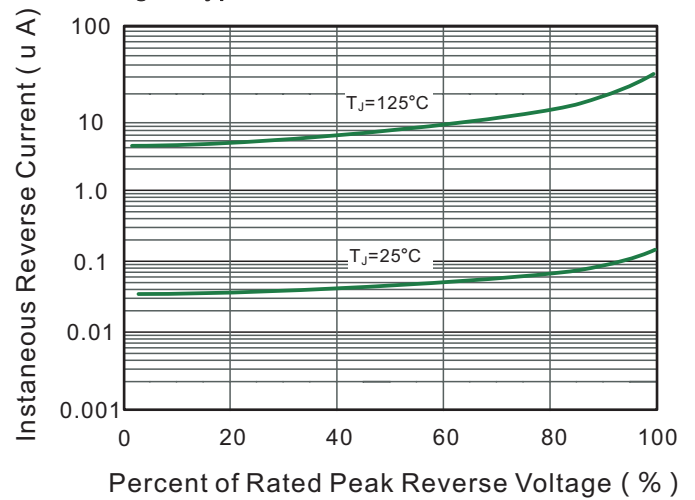


Fig.3 Typical Forward Characteristics

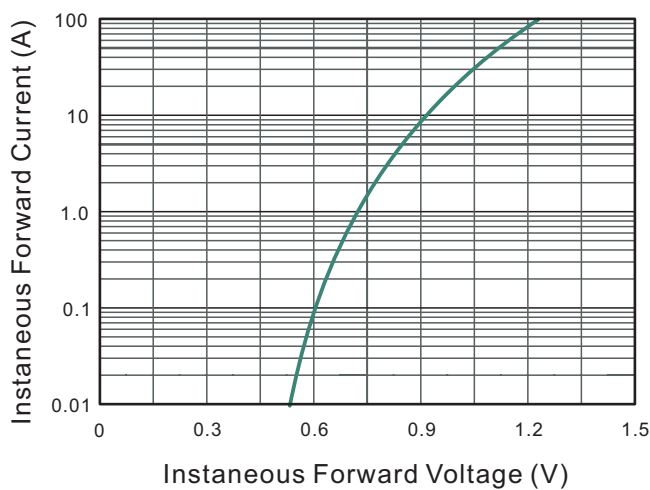
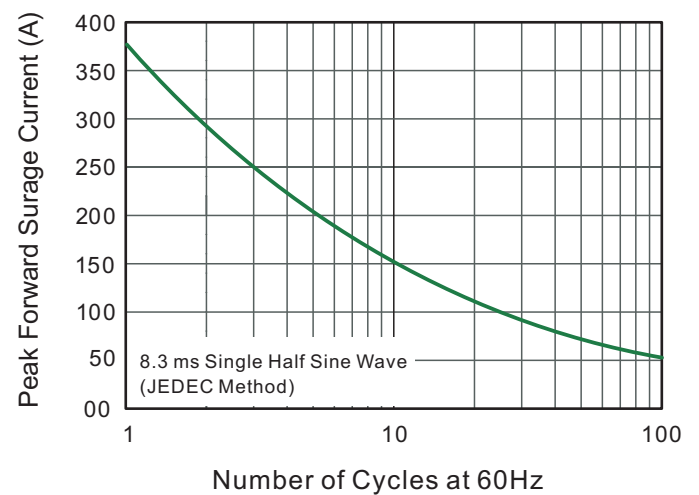


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Package Outline Dimensions inches and (millimeters)

