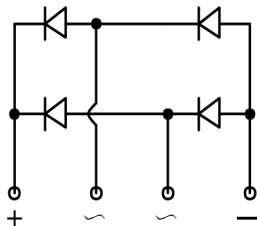
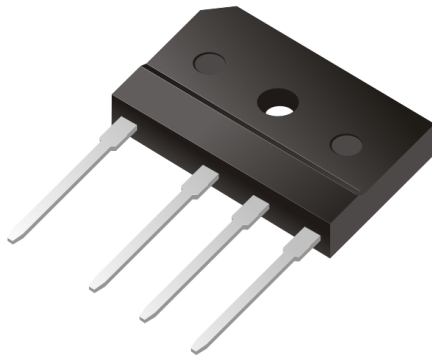


Bridge Rectifiers

GBJ



Reverse Voltage - 1000 V

Forward Current - 25 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	GBJ2510
Repetitive peak reverse voltage		VRRM	V	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =110℃	IO	A	25
	Without heatsink Ta =25℃			4.0
Surge(non-repetitive)forward current @60HZ half sine wave, 1 cycle, Tj=25℃		IFSM	A	350
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		I²t	A²S	510
Storage temperature		Tstg	℃	-55 ~+150
Junction temperature		Tj	℃	-55 ~+150
Dielectric strength @ terminals to case, AC 1 minute		Vdis	KV	2.5
Mounting torque @recommend torque: 5kg·cm		Tor	kg·cm	8

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ2510
Maximum instantaneous forward voltage drop per diode	VF	V	IFM =12.5 A	1.00
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	$V_{RRM} \frac{25^{\circ}\text{C}}{125^{\circ}\text{C}}$	5.0
				100

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

PARAMETER		SYMBOL	UNIT	GBJ2510
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	°C/W	18
	Between junction and case, With heatsink	RθJ-C		0.8

Fig.1 Typical Forward Current Derating Curve

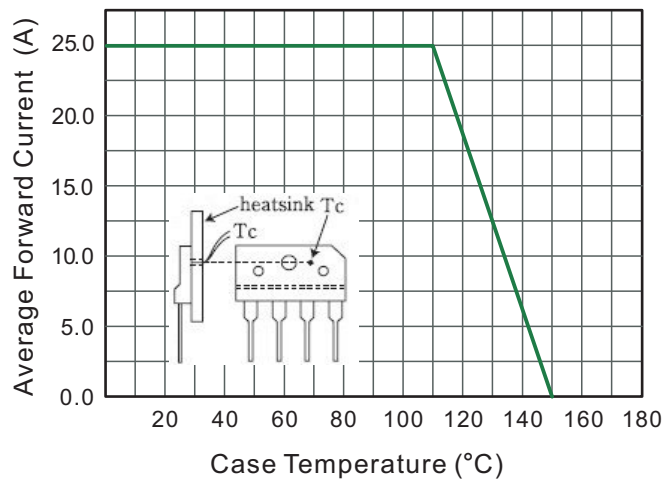


Fig.2 Typical Reverse Characteristics

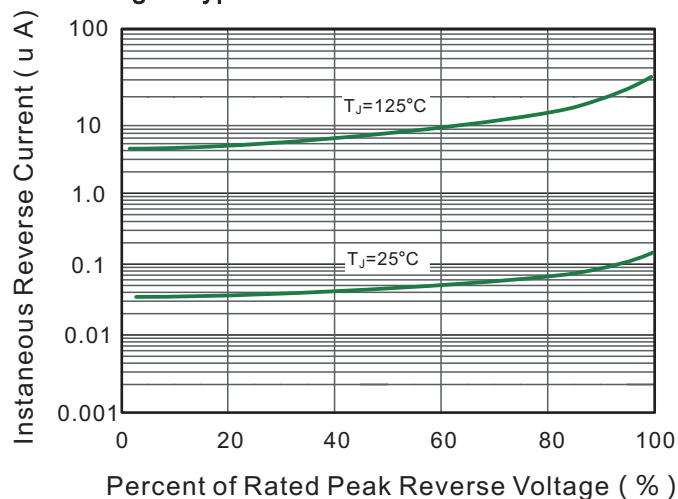


Fig.3 Typical Forward Characteristics

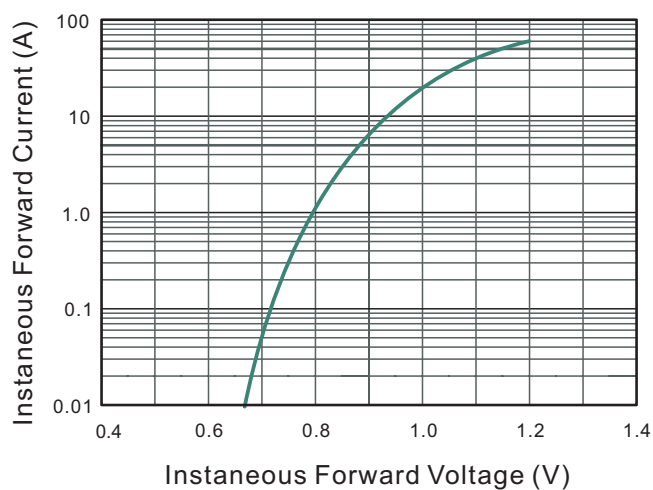
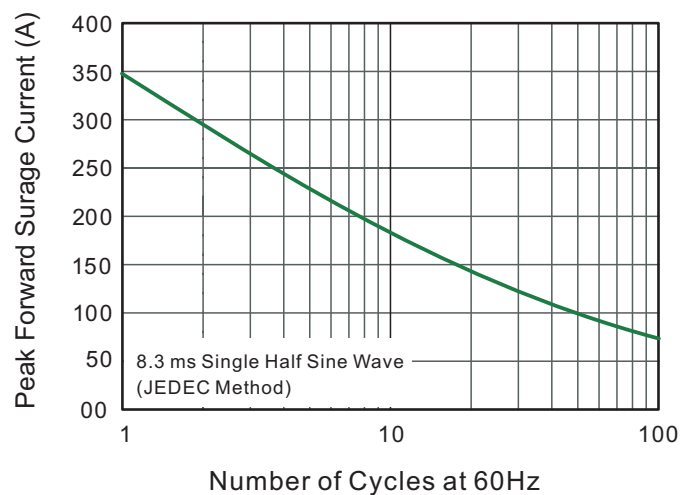


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Package Outline Dimensions inches and (millimeters)

