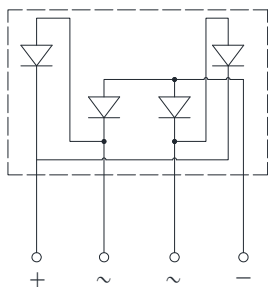
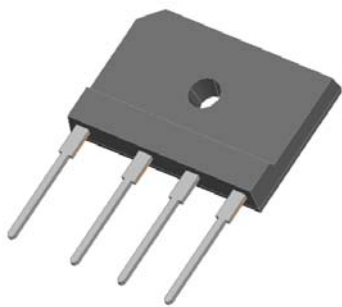


## Low VF Bridge Rectifiers



### Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### 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:** 6KBJ  
Molding compound meets UL 94 V-0 flammability rating, -
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

### ■Maximum Ratings (Ta=25°C Unless otherwise specified )

PARAMETER		SYMBOL	UNIT	GBJL2506
Device marking code				GBJL2506
Maximum Repetitive Peak Reverse Voltage		VRRM	V	600
Maximum RMS Voltage		VRMS	V	420
Maximum DC blocking Voltage		VDC	V	600
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =104℃	IO	A	25.0
	Without heatsink Ta =25℃			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25℃		IFSM	A	420
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃				840
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		I²t	A²S	730
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

# GBJL2506

## ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL2506
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =12.5A	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	T <sub>j</sub> =25°C	5
			T <sub>j</sub> =125°C	200
Typical junction capacitance	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280

## ■Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBJL2506
Typical Thermal Resistance	Between junction and ambient, Without heatsink	R <sub>θJ-A</sub>	°C/W	18.0
	Between junction and case, With heatsink	R <sub>θJ-C</sub>		1.0

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

## ■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJL2506	B1	Approximate 6.5	15	750	1500	TUBE

## ■ Characteristics(Typical)

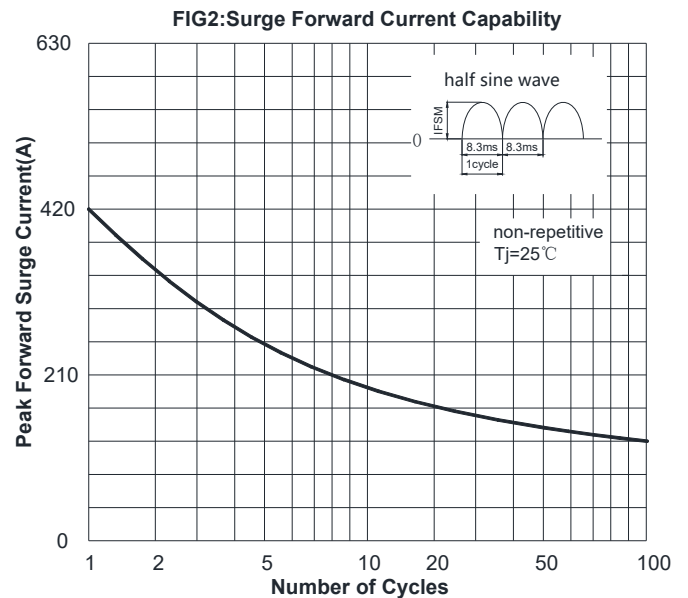
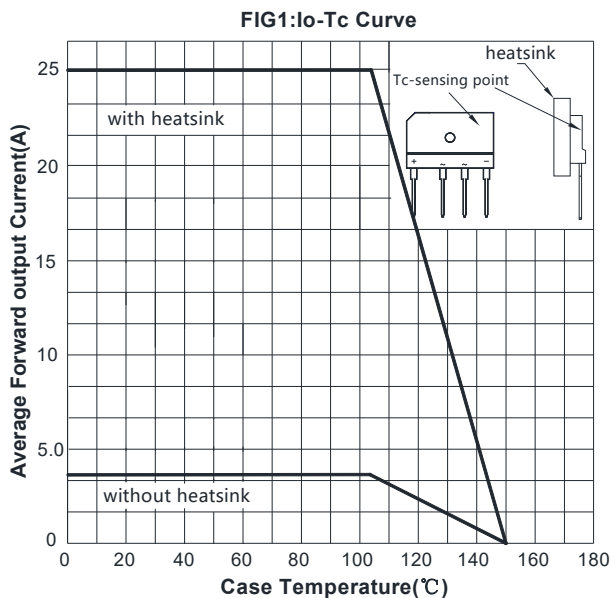


FIG3: Typical Forward Voltage

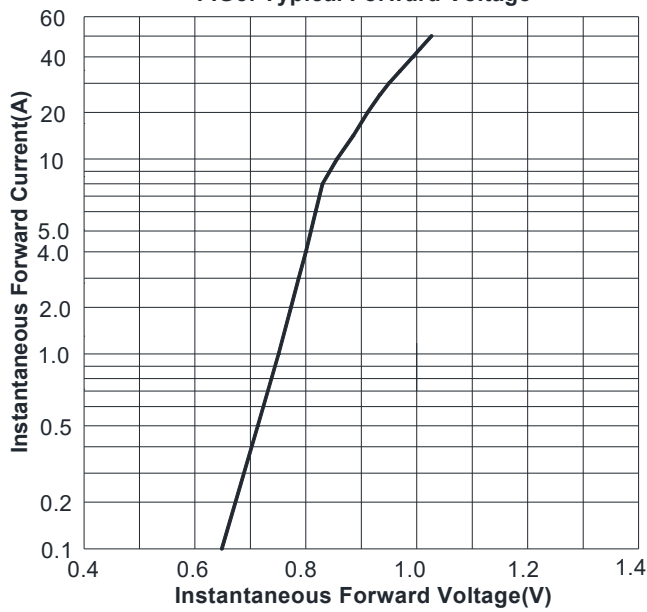
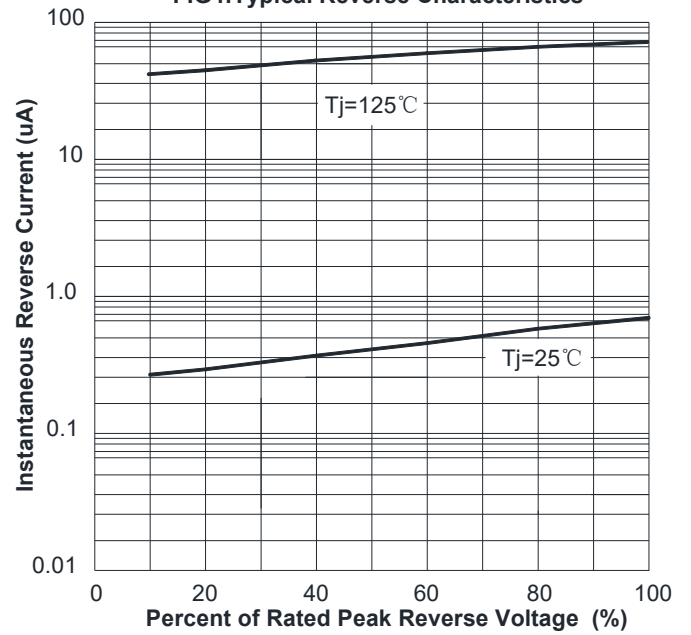
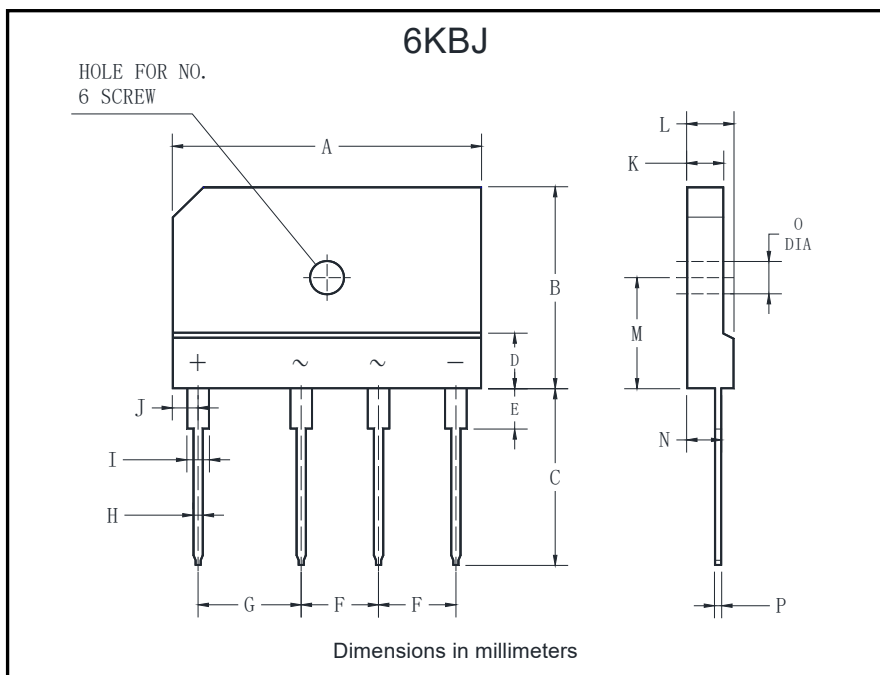


FIG4: Typical Reverse Characteristics



## ■ Outline Dimensions



6KBJ		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4
J	2.3	2.7
K	3.4	3.8
L	4.4	4.8
M	10.8	11.2
N	3.1	3.7
O	3.1	3.4
P	0.6	0.8

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