

Low VF Bridge Rectifiers

Features

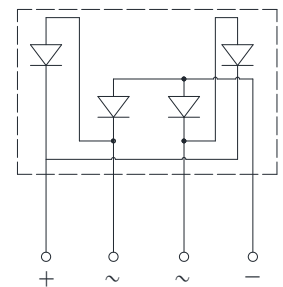
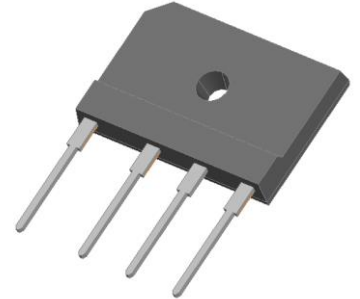
- UL recognition, file #E230084
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body



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

PARAMETER	SYMBOL	UNIT	GBJL2506
Device marking code			GBJL2506
Repetitive peak reverse voltage	VRRM	V	600
Average rectified output current @60Hz sine wave, R-load	IO	A	With heatsink T _c =87°C
			Without heatsink T _a =25°C
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _j =25°C	IFSM	A	420
Current squared time @ 1ms≤t≤8.3ms T _j =25°C, Rating of per diode	I ² t	A ² S	730
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	2.0
Mounting torque @ recommend torque: 5kg · cm	Tor	kg · cm	8

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL2506
Maximum instantaneous forward voltage drop per diode	V _F	V	IFM=12.5A	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	µA	V _{RM} =V _{RRM}	5

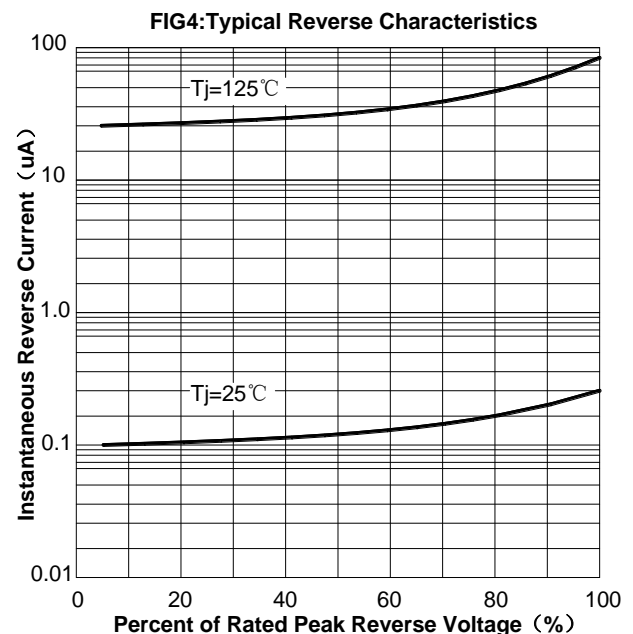
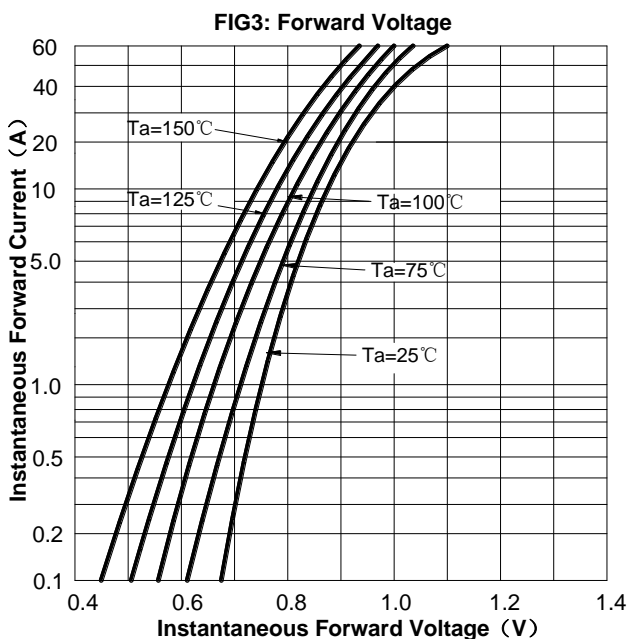
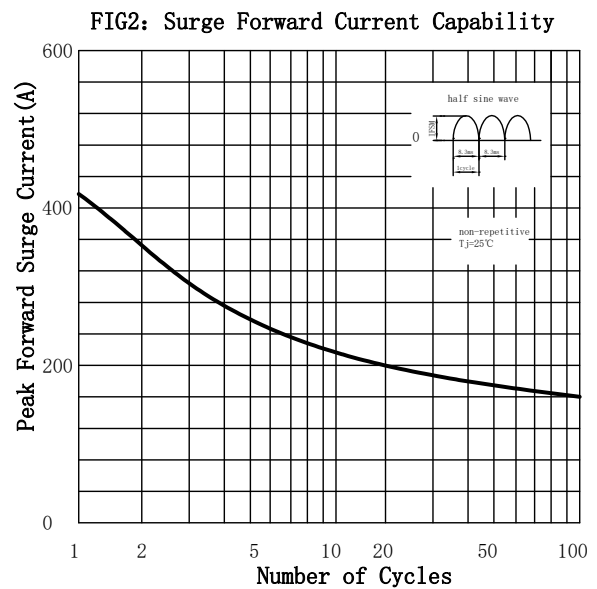
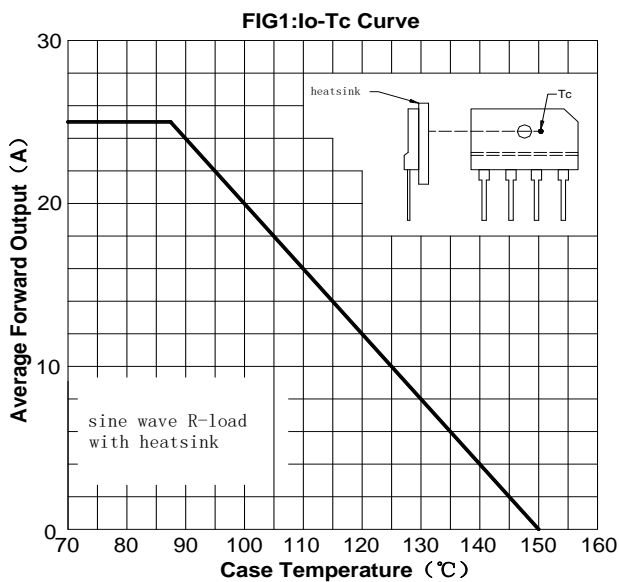
■ **Thermal Characteristics** ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBJL2506		
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	$^\circ\text{C/W}$	22.0		
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5		

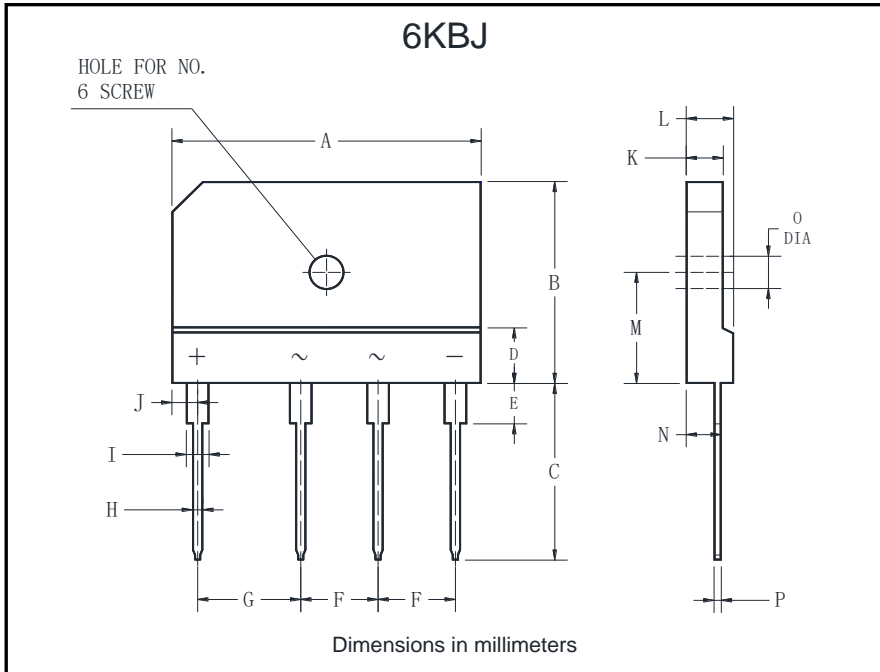
■ **Ordering Information (Example)**

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)**



■ **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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