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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, RoHS-compliant

- 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°C	IO	A	25.0
	Without heatsink Ta =25℃			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		IFSM	А	420
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				840
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	730
Storage temperature		T _{stg}	°C	-55 ~ +150
Junction temperature		Тј	°C	-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 ($T_a=25$ °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL2506
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=12.5A	0.92
Maximum DC reverse current at rated DC blocking voltage per	IR	μA	Tj =25℃	5
diode	чĸ	μΑ	Tj =125℃	200
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280

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

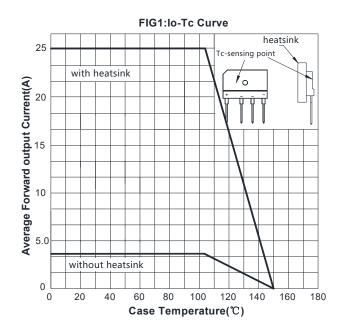
PARAMETER		SYMBOL	UNIT	GBJL2506
Typical Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	°C/W	18.0
	Between junction and case, With heatsink	RθJ-C		1.0

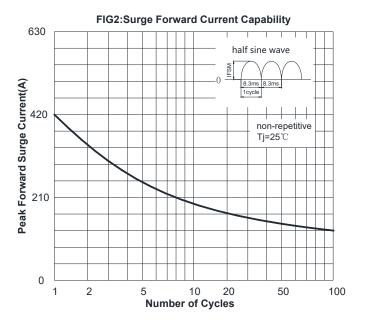
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED 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

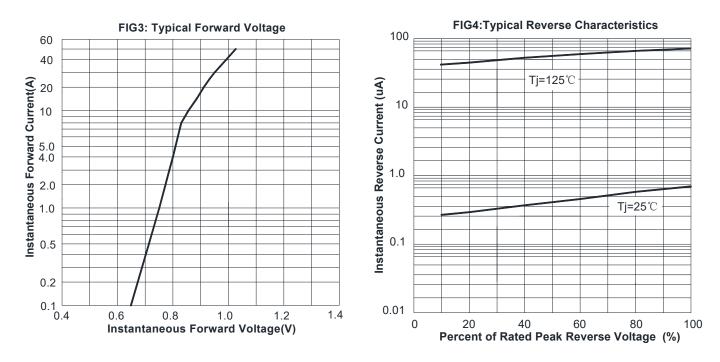
Characteristics(Typical)



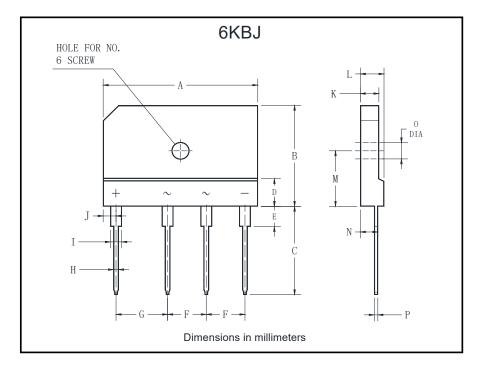


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GBJL2506



Outline Dimensions



6KBJ					
Dim	Min	Max			
А	29.7	30.3			
В	19.7	20.3			
С	17.0	18.0			
D	4.8	5.8			
Е	3.8	4.2			
F	7.3	7.7			
G	9.8	10.2			
Н	0.9	1.1			
I	2.0	2.4			
J	2.3	2.7			
К	3.4	3.8			
L	4.4	4.8			
М	10.8	11.2			
Ν	3.1	3.7			
0	3.1	3.4			
Р	0.6	0.8			

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GBJL2506

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