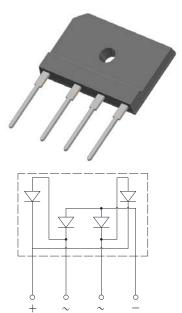




Low VF Bridge Rectifiers



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)

PARAMET	SYMBOL	UNIT	GBJL5006	
Device marking code				GBJL5006
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 =55°C	IO	А	50.0
	Without heatsink Ta =25°C			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		- IFSM	А	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				1000
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating o	I ² t	A ² S	1037.5	
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	

GBJL5006

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL5006
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	0.97
Maximum DC reverse current at rated	IR	μА	T _j =25°C	5
DC blocking voltage per diode			T _j =125°C	200
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280

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

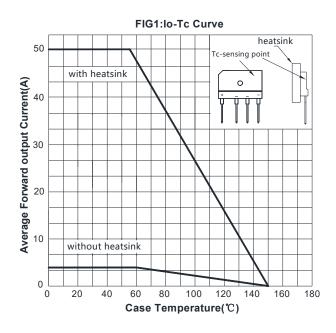
PARAMETER		SYMBOL	UNIT	GBJL5006
Typical	Between junction and ambient, Without heatsink	RøJ-A	°C/W	18.0
Thermal Resistance	Between junction and case, With heatsink	RøJ-C	C/VV	1.0

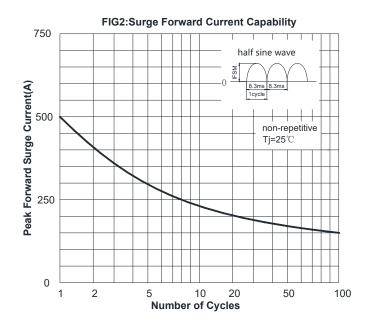
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJL5006	B1	Approximate 6.5	15	750	1500	TUBE

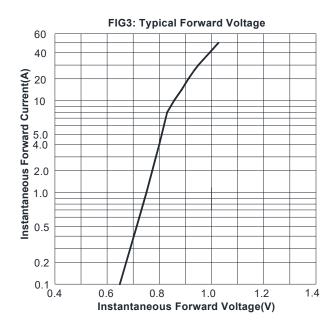
■ Characteristics(Typical)

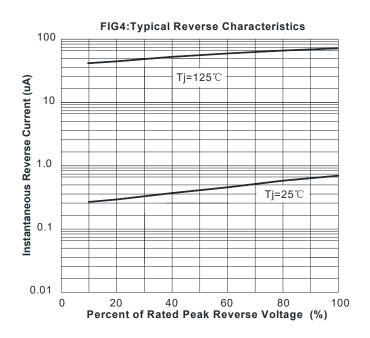




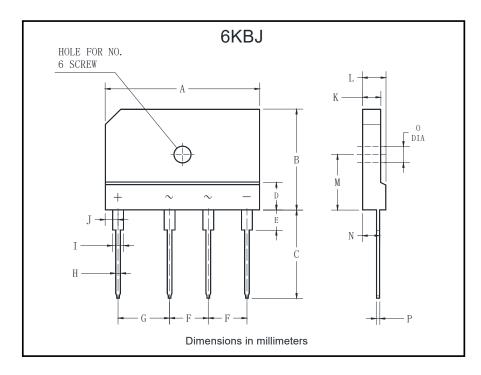








■ Outline Dimensions



6KBJ						
Dim	Min	Max				
Α	29.7	30.3				
В	19.7	20.3				
С	17.0	18.0				
D	4.8	5.8				
E	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				
K	3.4	3.8				
L	4.4	4.8				
М	10.8	11.2				
N	3.1	3.7				
0	3.1	3.4				
Р	0.6	0.8				



GBJL5006

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