

GBJ8005 THRU GBJ810

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

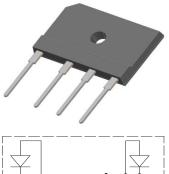
rating, RoHS-compliant

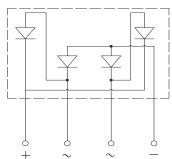
• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102
• Polarity: As marked on body

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







PARAMETER	SYMBOL	UNIT	GBJ8005	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810	
Device marking code			GBJ8005	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810	
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave,	10	А	8.0							
R-load Without heat $T_a = 25^{\circ}C$	tsink		3.5							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	Α	175							
Current squared time @1ms≤t≤8.3ms Tj=25°C,Rating of per	diode I ² t	A ² s	127							
Storage temperature	T _{Stg}	$^{\circ}$ C	-55 ~+150							
Junction temperature	Тј	°C	-55 ~+150							
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	2							
Mounting torque @recommend torque: 5kg • cm	Tor	kg • cm	8						_	

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ8005	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=4.0A		1.00					
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						



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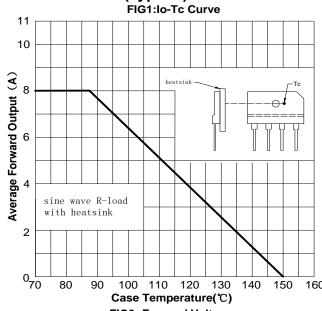
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

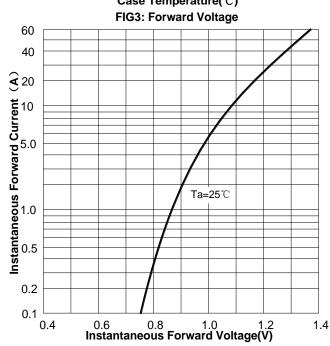
F	PARAMETER	SYMBOL	UNIT	GBJ8005	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810
Thermal Resistance	Between junction and ambient, Without heatsink	RøJ-A	°€/W	25.0						
Resistance	Between junction and case, With heatsink	RøJ-C		2.3						

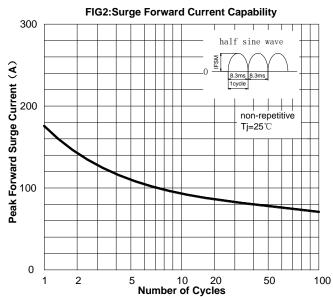
■Ordering Information (Example)

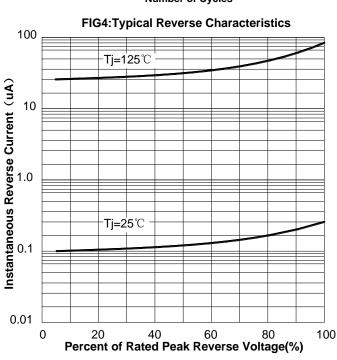
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ8005 THRU GBJ810	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics (Typical)





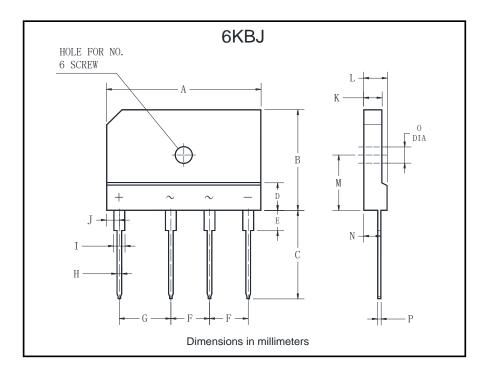






GBJ8005 THRU GBJ810

■ 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				
Е	3.8	4.2				
F	7.3	7.7				
G	9.8	10.2				
Н	0.9	1.1				
1	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				

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