

GBJ25005 THRU GBJ2510

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

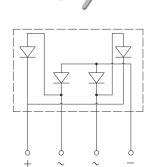
• Package: 6KBJ

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)

■ waximum Ratings (Ta=23 € Offices office wise specified)											
PARAMETER		SYMBOL	UNIT	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	
Device marking code				GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000	
Average rectified output Tc =87°C		- IO	Α	25.0							
current @60Hz sine wave. R-load,	Without heatsink $T_a = 25^{\circ}C$	10	А	3.5							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	Α	320							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l ² t	A ² s	424							
Storage temperature		Tstg	$^{\circ}$	-55 ~+150							
Junction temperature		Tj	$^{\circ}$	-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	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510
Maximum instantaneous forward voltage drop per diode	VF	V	I _{FM} =12.5A 1.00							
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5						



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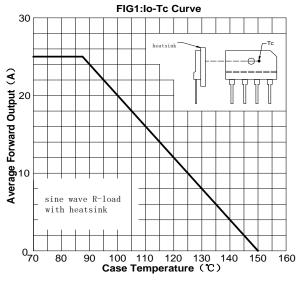
Thermal Characteristics $(T_a=25$ $^{\circ}$ Unless otherwise specified)

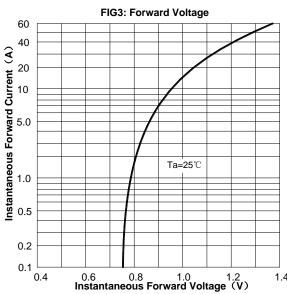
PARAMETER		SYMBOL	UNIT	GBJ25005	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510
Thermal Parister Pari		RøJ-A	°C/W	22.0						
Resistance Between junction and case, With heatsink		RøJ-C		1.0						

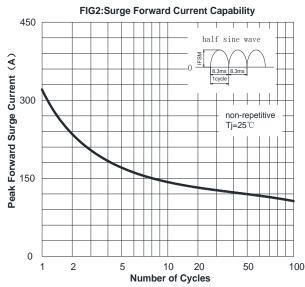
■Ordering Information (Example)

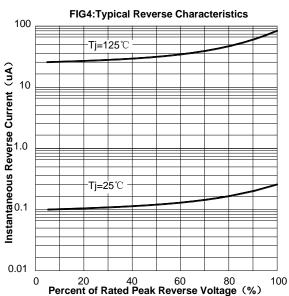
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ25005 THRU GBJ2510	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics(Typical)





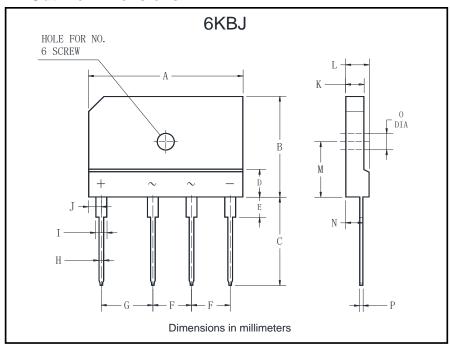






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■ Outline Dimensions



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				
Η	0.9	1.1				
I	2.0	2.4				
J	2.3	2.7				
K	3.4	3.8				
┙	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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