

GBJ35005 THRU GBJ3510

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

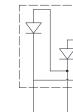
• Package: 6KBJ

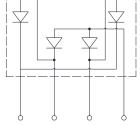
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• 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	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510		
Device marking code			GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510		
Repetitive peak reverse voltage	VRRM	V	50 100 200 400 600 800				800	1000			
Average rectified output Current @60Hz sine wave,	- Io	Α	35.0								
R-load, Without heatsink $Ta = 25^{\circ}C$.0	A	3.5								
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	Α	350								
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² s	508								
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	em 8								

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=17.5A	5A		1.05				
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						



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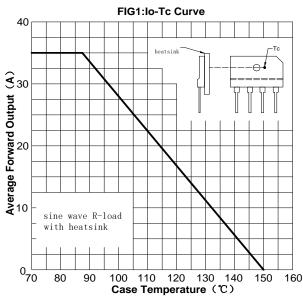
Thermal Characteristics $(T_a=25^{\circ}C \text{ Unless otherwise specified})$

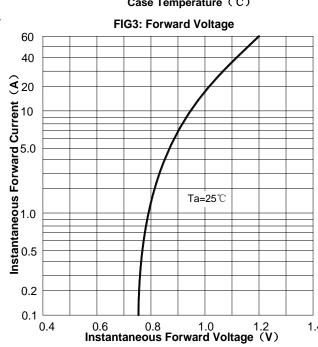
F	PARAMETER	SYMBOL	UNIT	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510
Thermal Resistance	Between junction and ambient, Without heatsink	R ₀ J-A	°C/W	22.0						
Resistance	Between junction and case, With heatsink	R ₀ J-C		0.8						

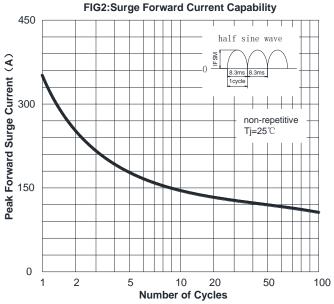
■Ordering Information (Example)

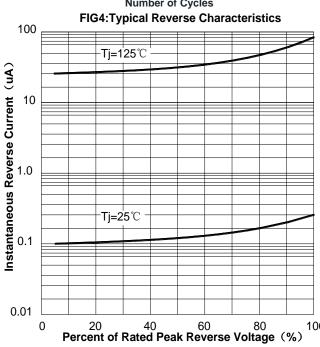
PREFERED P/N	EFERED P/N PACKING UI		MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
GBJ35005 THRU GBJ3510	B1	Approximate 6.5	15	750	1500	TUBE	

■ Characteristics (Typical)





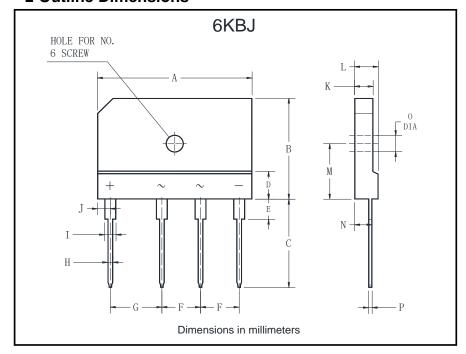






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■ Outline Dimensions



6KBJ						
Dim	Min	Max				
Α	29.7	30.3				
В	19.7	20.3				
С	17.0	18.0				
D	4.8	5.8				
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				

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