

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)

= maximum natings (1a-25 = 5 most strict specimes)											
PARAMETER		SYMBOL	UNIT	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	
Device marking code				GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	
Repetitive peak reverse voltage		VRRM	٧	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load		- Io	^	6							
		10	A	3.5							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25℃		IFSM	Α	175							
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode		l ² t	A ² s	127							
Storage temperature		T _{stg}	$^{\circ}$	-55 ~+150							
Junction temperature		Тј	$^{\circ}$	-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)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3A				1.0			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	M=VRRM 5						

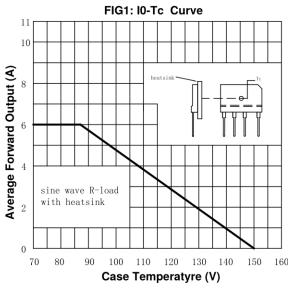
■Thermal Characteristics $(T_a=25^{\circ}C \text{ Unless otherwise specified})$

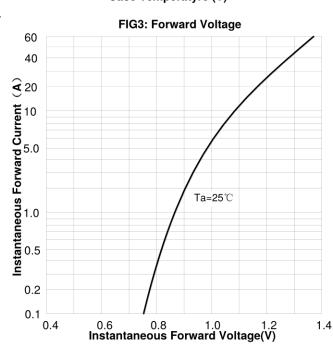
PARAMETER		SYMBOL	UNIT	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610
Thermal Resistance	Between junction and ambient, Without heatsink	R ₀ J-A	°C/ W	26 V						
Between junction and case, With heatsink		R ₀ J-C		3.4						

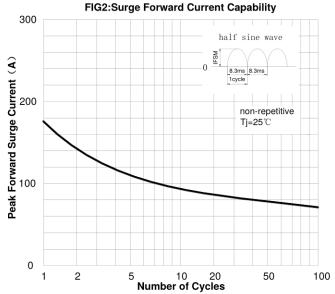
■Ordering Information (Example)

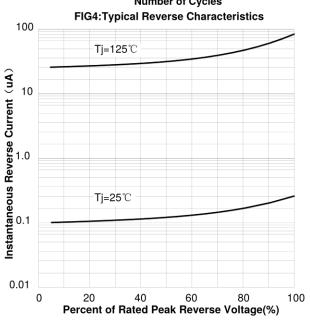
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ6005 THRU GBJ610	B1	Approximate 6.5	15	750	1500	TUBE
GBJ6005 THRU GBJ610	A1	Approximate 6.5	250	250	2000	вох

■ Characteristics (Typical)



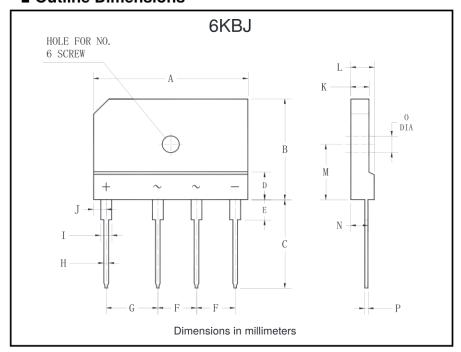








■ Outline Dimensions



6KBJ						
Dim	Min	Max				
Α	29.7	30.3				
В	19.7	20.3				
С	17.0	18.0				
D	4.8	5.8				
Е	3.8	4.2				
F	7.3	7.7				
G	9.8	10.2				
Н	0.9	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				
I K L M N	2.0 2.3 3.4 4.4 10.8 3.1 3.1	2.4 2.7 3.8 4.8 11.2 3.7 3.4				



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