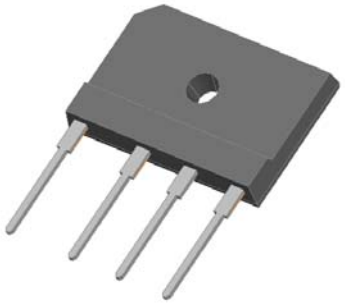
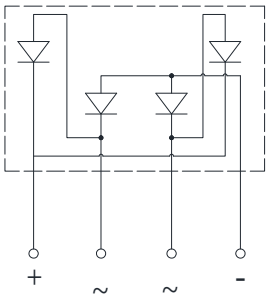
Bridge Rectifiers





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 (T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBJ20005A	GBJ2001A	GBJ2002A	GBJ2004A	GBJ2006A	GBJ2008A	GBJ2010A
Device marking code				GBJ20005A	GBJ2001A	GBJ2002A	GBJ2004A	GBJ2006A	GBJ2008A	GBJ2010A
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage		V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage		V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load,	With heatsink Tc =100	I_O	A	20.0						
	Without heatsink Ta =25			4.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	320						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				640						
Current squared time @1ms≤t<8.3ms Tj=25 ,Rating of per diode		I^2t	A^2s	425						
Storage temperature		T_{stg}		-55 ~ +150						
Junction temperature		T_j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8						

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ20005A	GBJ2001A	GBJ2002A	GBJ2004A	GBJ2006A	GBJ2008A	GBJ2010A
Maximum instantaneous forward voltage drop per diode	VF	V	I_{FM}=10.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5						
			T_j=125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	100						

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBJ20005A	GBJ2001A	GBJ2002A	GBJ2004A	GBJ2006A	GBJ2008A	GBJ2010A
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	/W	18.0						
	Between junction and case, With heatsink	RθJ-C		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
GBJ20005A THRU GBJ2010A	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics(Typical)

FIG1:Io-Tc Curve

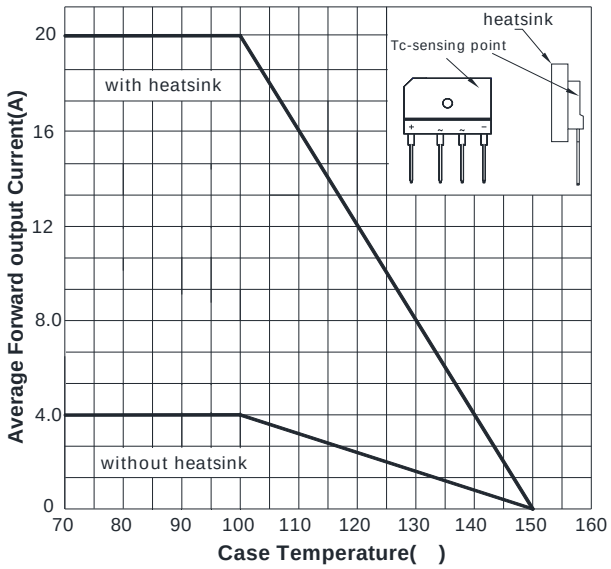
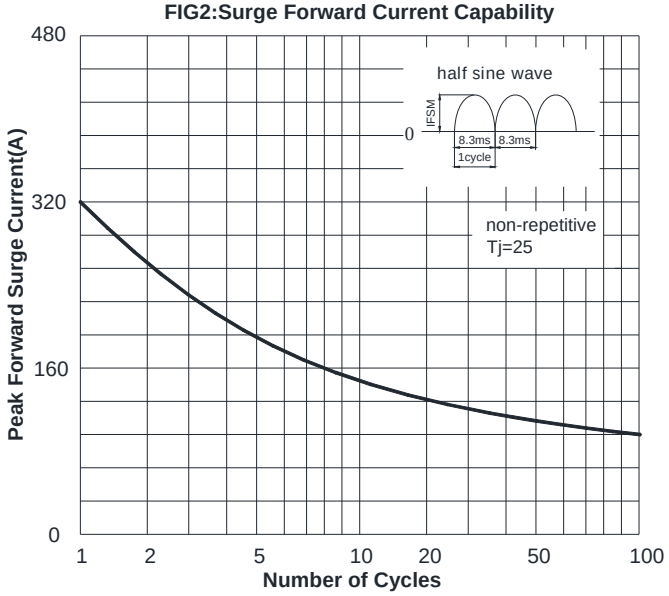
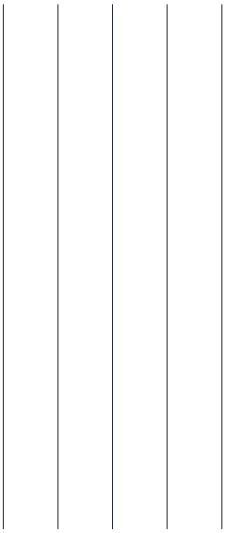


FIG2:Surge Forward Current Capability





■ Outline Dimensions

6KBJ		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4
J	2.3	2.7
K	3.4	3.8
L	4.4	4.8
M	10.8	11.2
N	3.1	3.7
O	3.1	3.4
P	0.6	0.8

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