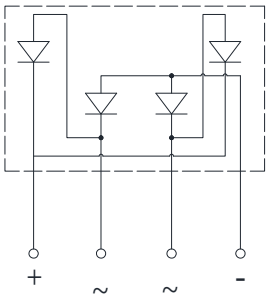
Bridge Rectifiers





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

PARAM®	Š	ж/	ж/	VRMS	V	35	7 0ж/	140	280	ф20	M Ú M ax imum RM

Maximum DC blocking Voltage		V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60H z sine wave R-load	**With heatsink Tc = 9 2**	I_O	A	35.0						
	Without heatsink Ta =25			4.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	350						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				700						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I^2t	A^2s	508						
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	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=17.5A	1.05						
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	116						

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0						
	Between junction and case, With heatsink	$R_{\theta J-C}$		0.8						

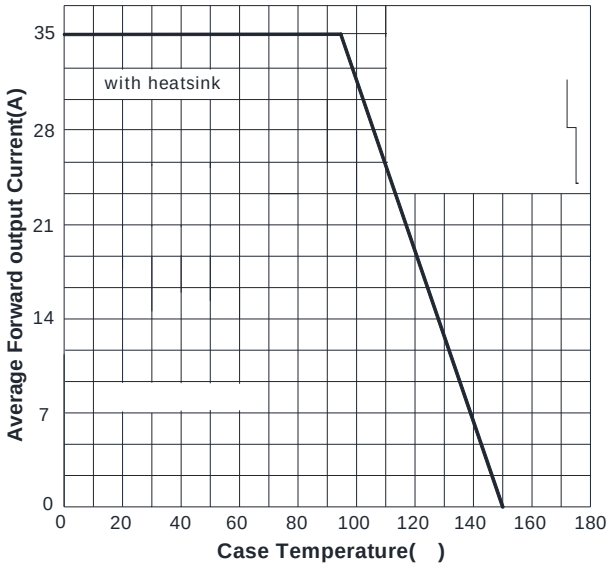
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ35005 - GBJ3510	B1	Approximate 6.5	15	750	1500	TUBE

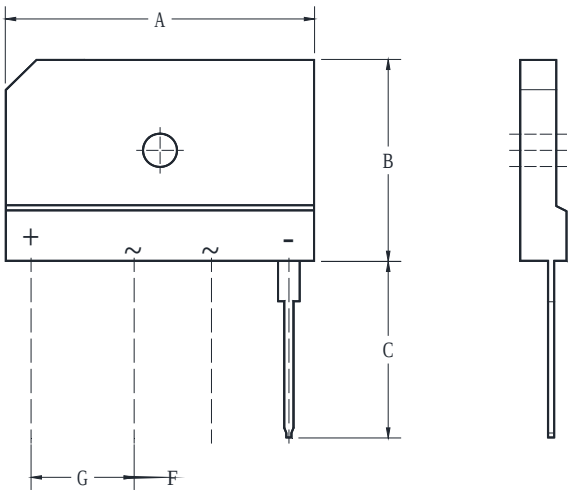
■ Characteristics (Typical)

FIG1:Io-Tc Curve



■ Outline Dimensions

6KBJ



Dimensions in millimeters

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

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with