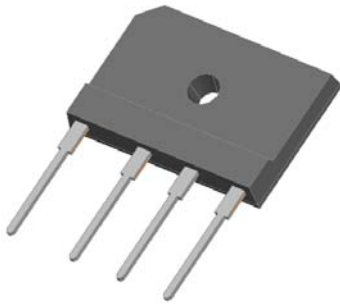


Bridge Rectifiers

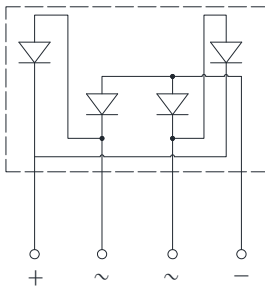


Features

- 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 high frequency AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.



Mechanical Data

- **Package:** KBJ6
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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBJH15005	GBJH1501	GBJH1502	GBJH1504	GBJH1506	GBJH1508	GBJH1510
Device marking code			GBJH15005	GBJH1501	GBJH1502	GBJH1504	GBJH1506	GBJH1508	GBJH1510
Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink T _C =87°C	I _O	A	15					
	Without heatsink T _a =25°C			3.2					
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _J =25°C	I _{FSM}	A	220						
Current squared time @1ms≤t≤8.3ms T _J =25°C, Rating of per diode	I ² t	A ² s	200						
Storage temperature	T _{stg}	°C	-55 ~+150						
Junction temperature	T _J	°C	-55 ~+150						
Dielectric strength @ terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting torque @recommend torque: 5kg · cm	T _{or}	kg · cm	8						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJH15005	GBJH1501	GBJH1502	GBJH1504	GBJH1506	GBJH1508	GBJH1510
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =7.5A	1.0			1.30	1.70		
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	5						
Reverse Recovery Time	T _{rr}	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	50				75		



GBJH15005 THRU GBJH1510

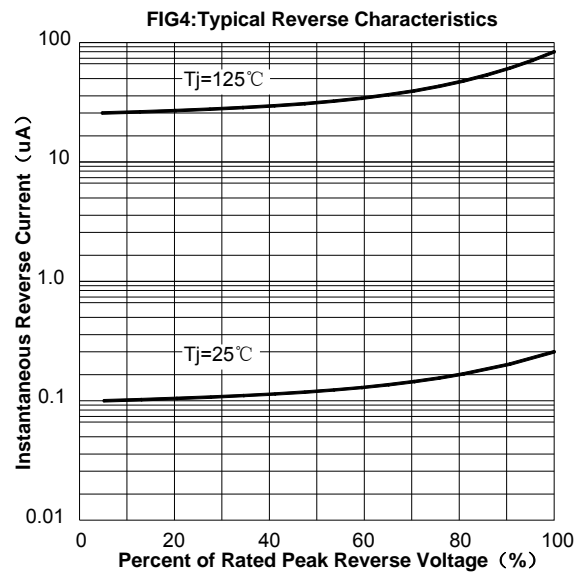
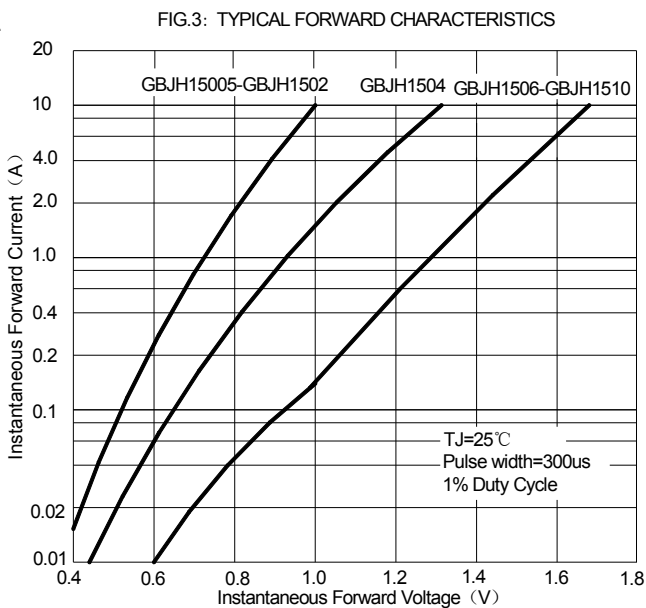
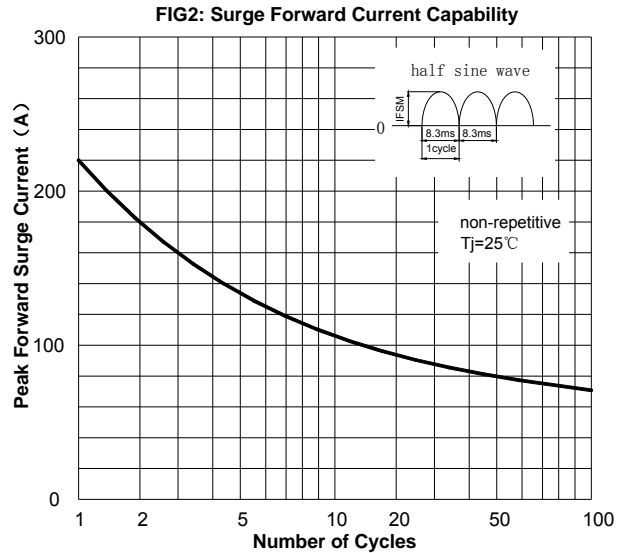
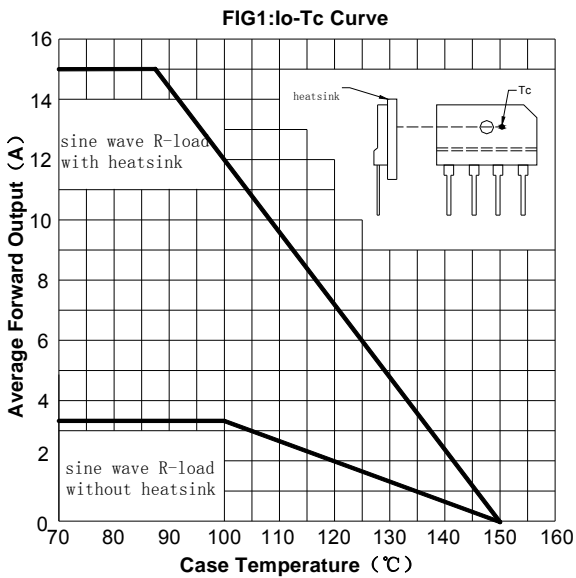
■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBJH15005	GBJH1501	GBJH1502	GBJH1504	GBJH1506	GBJH1508	GBJH1510
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	22						
	Between junction and case, With heatsink	R _{θJ-C}		1.5						

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJH15005 THRU GBJH1510	B1	Approximate 6.5	15	750	1500	TUBE
GBJH15005 THRU GBJH1510	A1	Approximate 6.5	250	250	2000	BOX

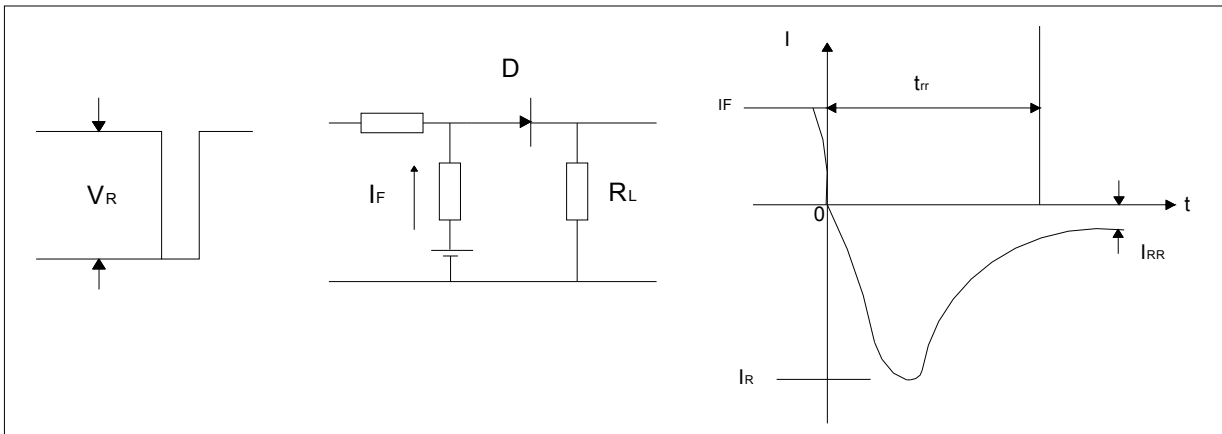
■ Characteristics (Typical)



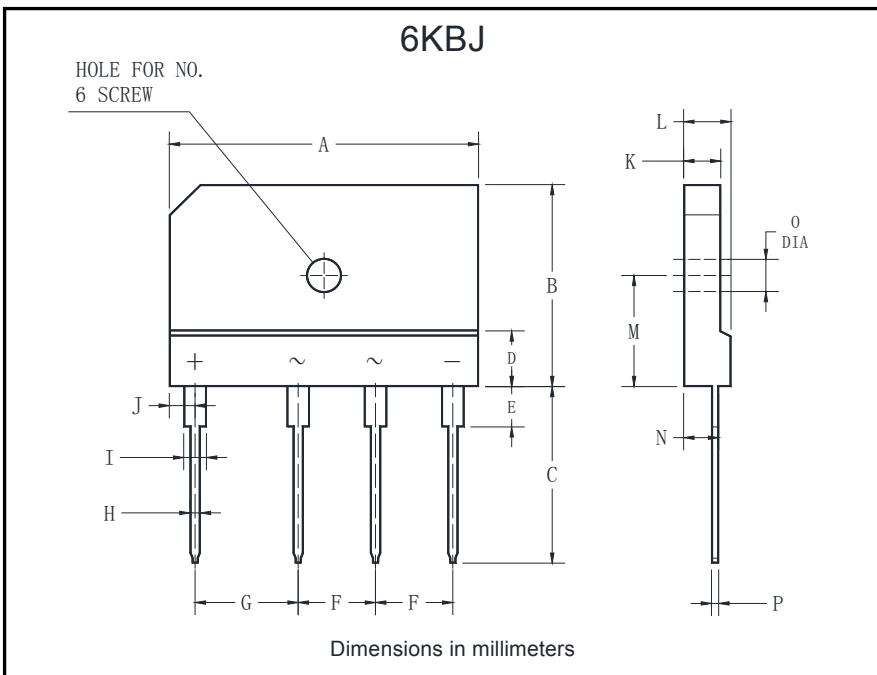


GBJH15005 THRU GBJH1510

图5: 反向恢复时间试验电路及测试波形示意图
 FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ 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	3.4	3.9
O	3.1	3.4
P	0.6	0.8



GBJH15005 THRU GBJH1510

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