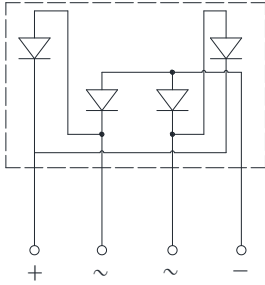
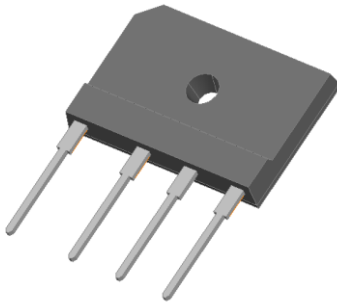




Bridge Rectifiers



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

PARAMETER		SYMBOL	UNIT	GBJ35005A	GBJ3501A	GBJ3502A	GBJ3504A	GBJ3506A	GBJ3508A	GBJ3510A
Device marking code				GBJ35005A	GBJ3501A	GBJ3502A	GBJ3504A	GBJ3506A	GBJ3508A	GBJ3510A
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load,	With heatsink T _C =87℃	IO	A	35						
	Without heatsink T _A =25℃			3.5						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _J =25℃		IFSM	A	380						
Current squared time @1ms≤t≤8.3ms T _J =25℃, Rating of per diode		I ² t	A ² s	664						
Storage temperature		Tstg	℃	-55 ~+150						
Junction temperature		T _J	℃	-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 ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ35005A	GBJ3501A	GBJ3502A	GBJ3504A	GBJ3506A	GBJ3508A	GBJ3510A
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=17.5\text{A}$	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	$V_{RM}=V_{RRM}$	5						



GBJ35005A THRU GBJ3510A

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

PARAMETER	SYMBOL	UNIT	GBJ35005A	GBJ3501A	GBJ3502A	GBJ3504A	GBJ3506A	GBJ3508A	GBJ3510A
Average Forward Output (A)			22						
			0.8						
Weight (g)									
MINIMUM PACKAGE(pcs)			15	750	1500	TUBE			
250			250	250	2000	BOX			

FIG1: I_o - T_c Curve

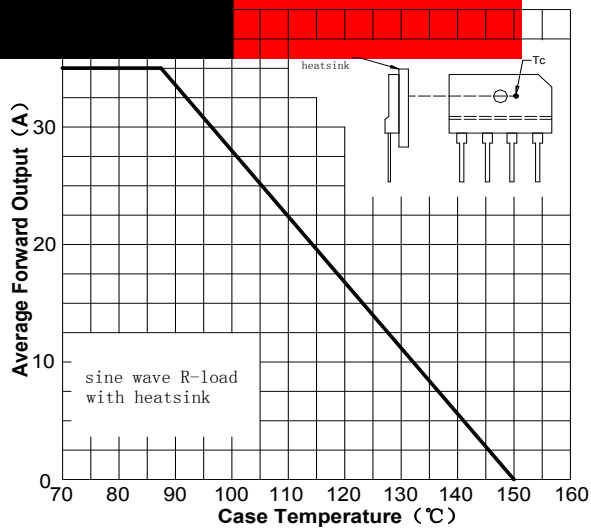


FIG3: Forward Voltage

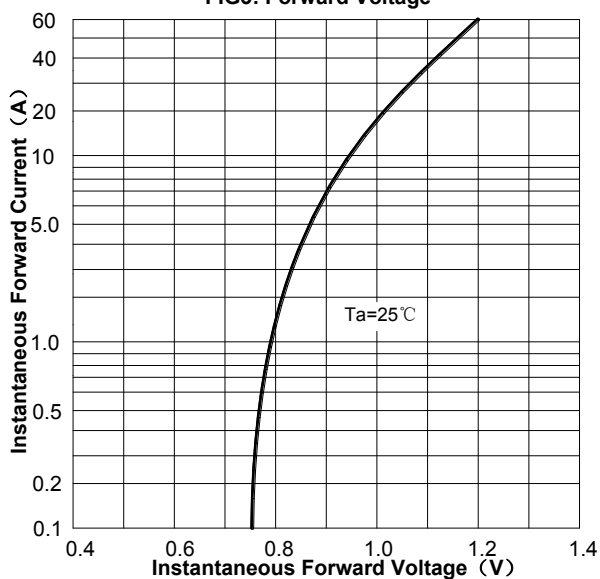


FIG2: Surge Forward Current Capability

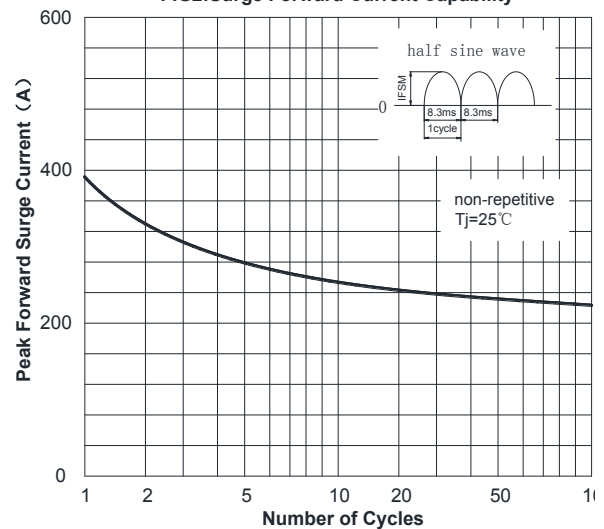
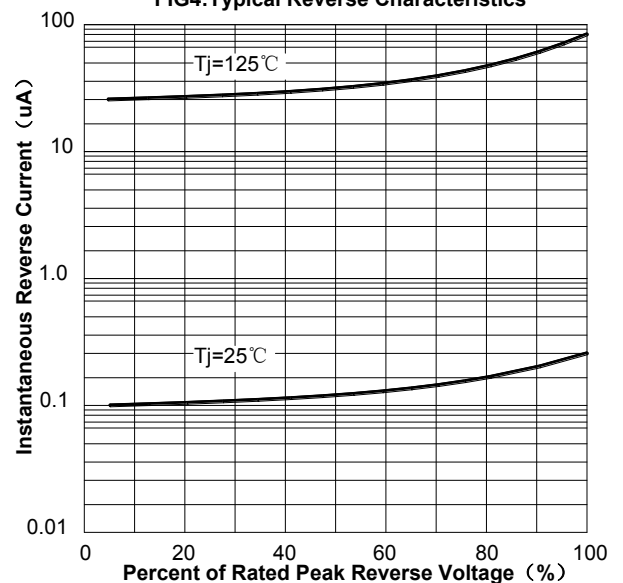


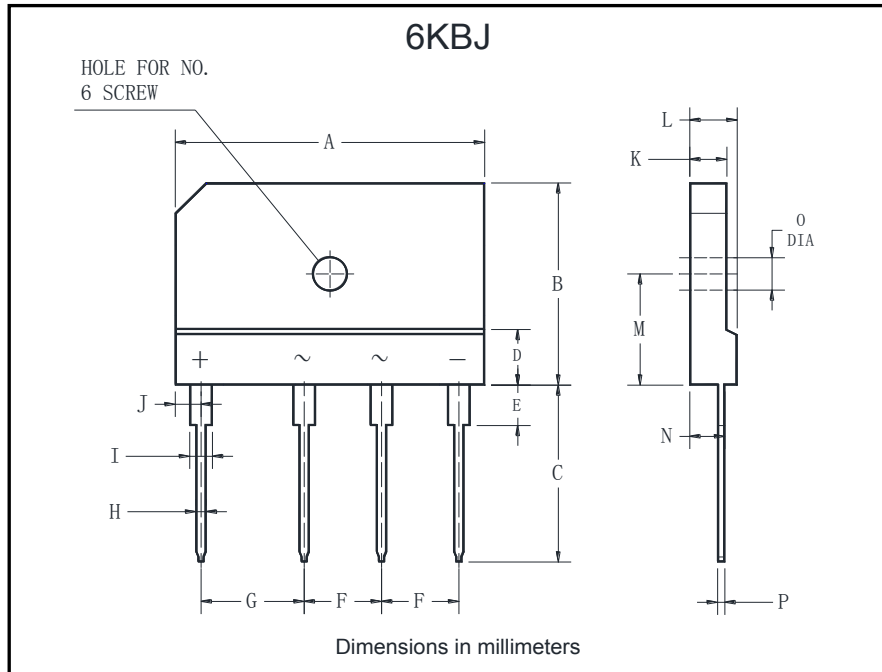
FIG4: Typical Reverse Characteristics





GBJ35005A THRU GBJ3510A

■ 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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