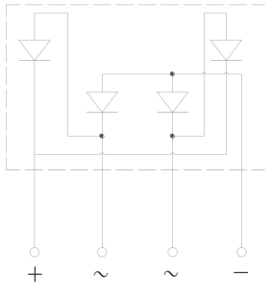
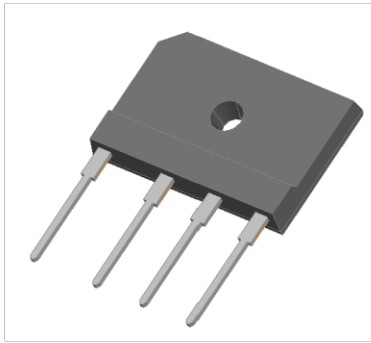




## Bridge Rectifiers



### 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 $T_c=87^\circ\text{C}$	IO	A	35					
	Without heatsink $T_a=25^\circ\text{C}$			3.5					
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	380						
Current squared time @1ms≤t≤8.3ms $T_j=25^\circ\text{C}$ , Rating of per diode	$I^2t$	$\text{A}^2\text{s}$	664						
Storage temperature	$T_{\text{stg}}$	$^\circ\text{C}$	-55 ~+150						
Junction temperature	$T_j$	$^\circ\text{C}$	-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 <sub>F</sub>	V	I <sub>FM</sub> =17.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM</sub>	$\mu\text{A}$	V <sub>RM</sub> =V <sub>RRM</sub>	5						



# GBJ35005A THRU GBJ3510A

## Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBJ35005A	GBJ3501A	GBJ3502A	GBJ3504A	GBJ3506A	GBJ3508A	GBJ3510A
[REDACTED]	[REDACTED]	[REDACTED]	22						
			0.8						
[REDACTED]	[REDACTED]	(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE			
[REDACTED]	[REDACTED]	6.5	15	750	1500	TUBE			
[REDACTED]	[REDACTED]	6.5	250	250	2000	BOX			

FIG1: I<sub>o</sub>-T<sub>c</sub> Curve

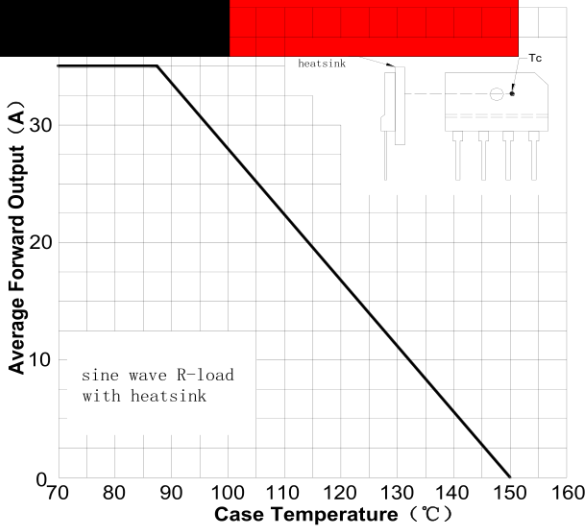


FIG3: Forward Voltage

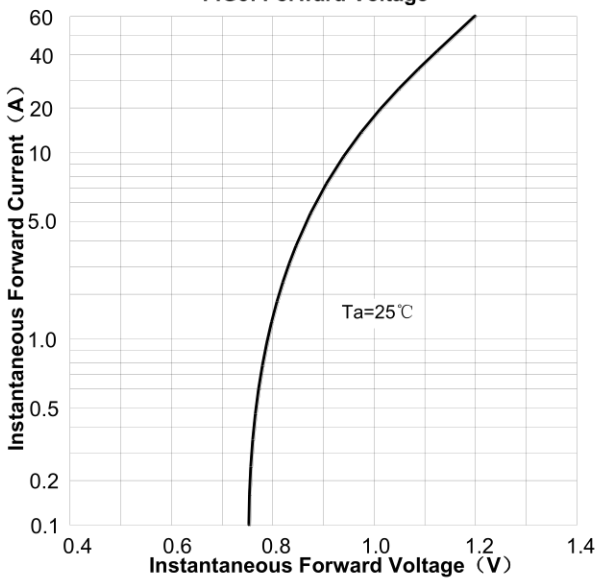


FIG2: Surge Forward Current Capability

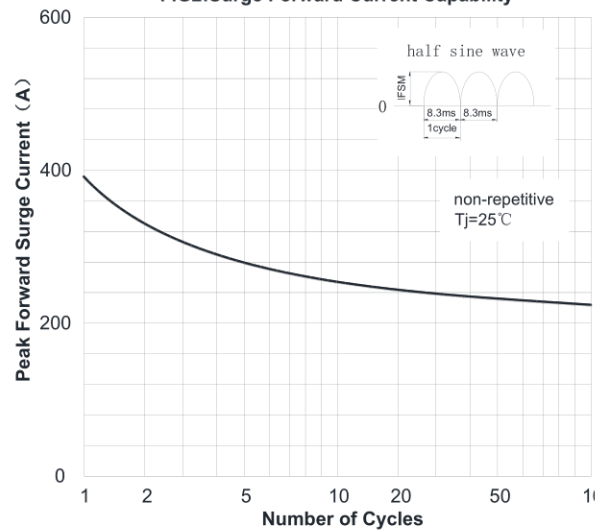
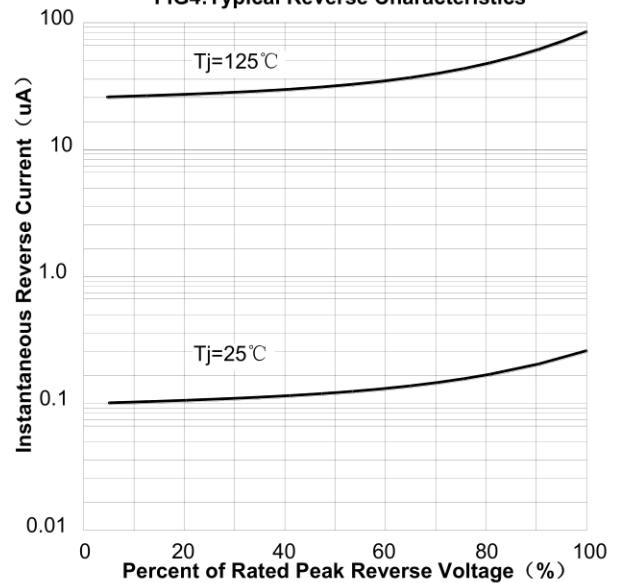


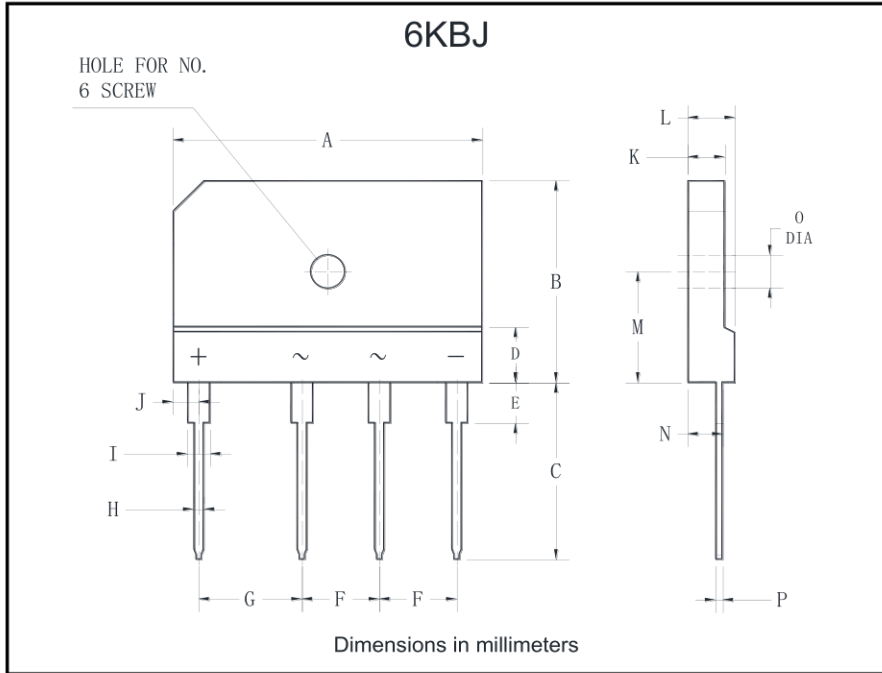
FIG4: Typical Reverse Characteristics





# 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



## GBJ35005A THRU GBJ3510A

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