



## Low VF 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

$T_c = 55$

With heatsink

IO

	Without heatsink $T_a = 25$			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j = 25$		IFSM	A	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j = 25$				1000
Current squared time @1ms t 8.3ms $T_j = 25$ , Rating of per diode		$I^2t$	$A^2S$	1037.5
Storage temperature		$T_{stg}$		-55 ~ +150
Junction temperature		$T_j$		



# GBJL5008

## Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL5008
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM}=25A$	0.97
Maximum DC reverse current at rated DC blocking voltage per diode	$I_R$	$\mu A$	$T_j=25$	5
			$T_j=125$	200
Typical junction capacitance	$C_j$	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	275

## Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	GBJL5008	
Typical Thermal Resistance	Between junction and ambient, Without heatsink	R J-A	/W	18.0
	Between junction and case, With heatsink	R J-C		1.0

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

## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJL5008	B1	Approximate 6.5	15	750	1500	TUBE

## Characteristics(Typical)

FIG1:  $I_o$ - $T_c$  Curve

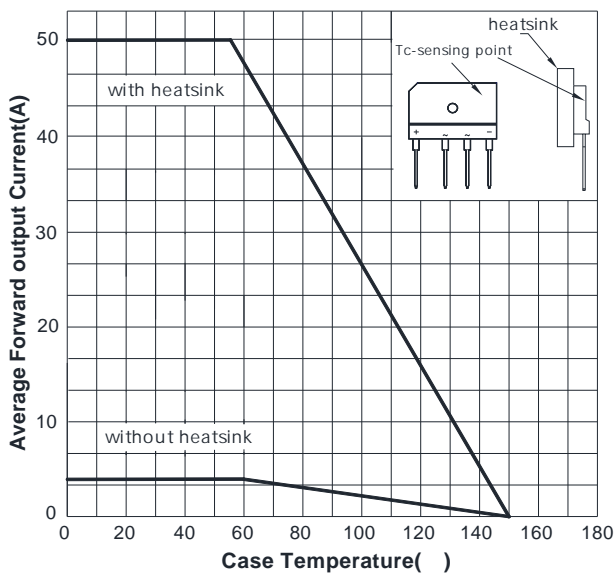
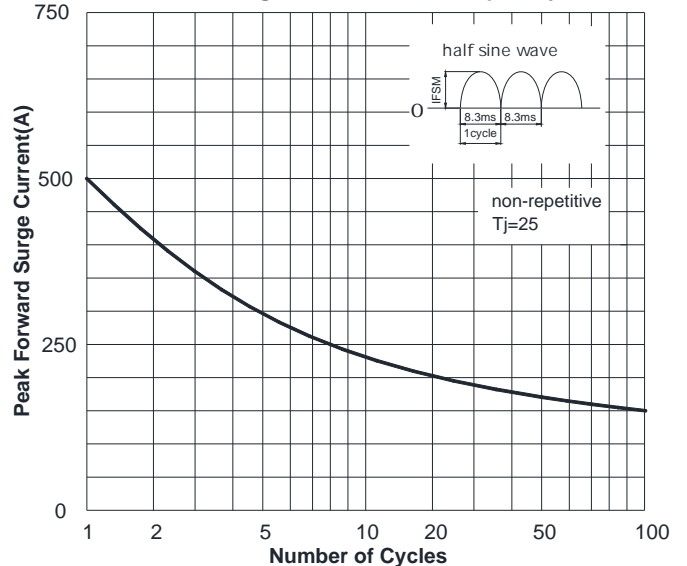
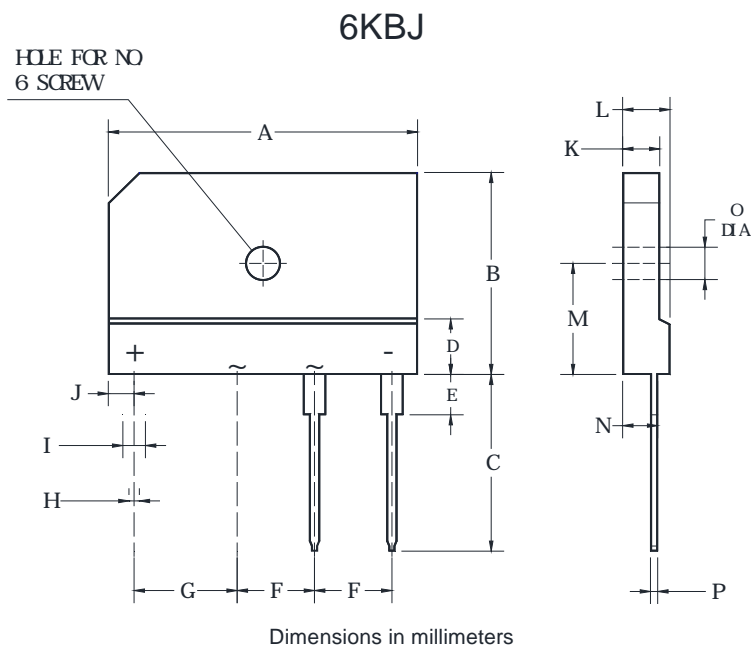


FIG2: Surge Forward Current Capability



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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