



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

Y With heatsink

IO

A

	Without heatsink Ta =25			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		IFSM	A	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				1000
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I ² t	A ² S	1037.5
Storage temperature		Tstg		-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	μA	$T_j=25$	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

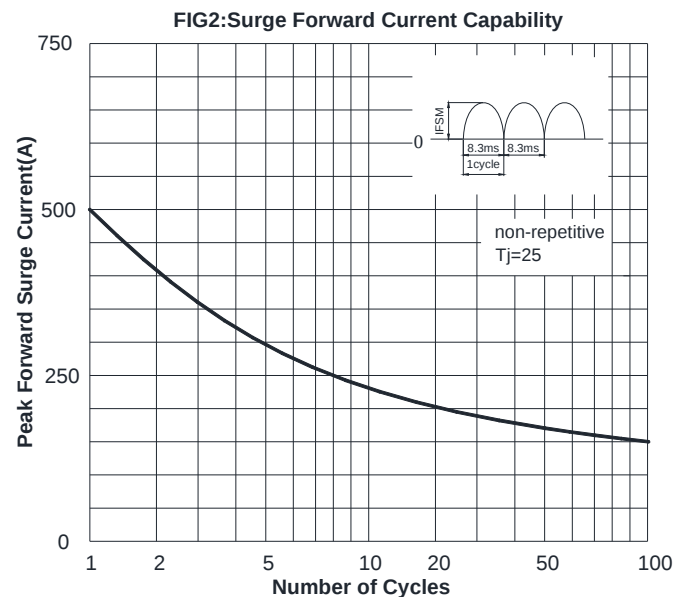
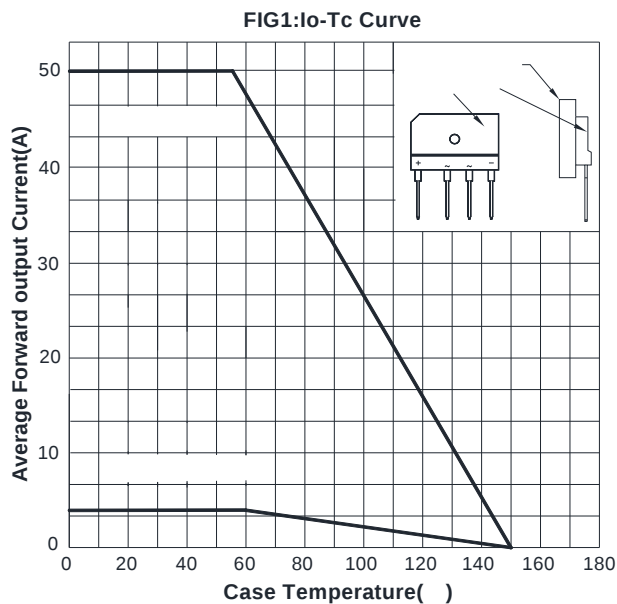
PARAMETER		SYMBOL	UNIT	GBJL5008
Typical Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.0

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

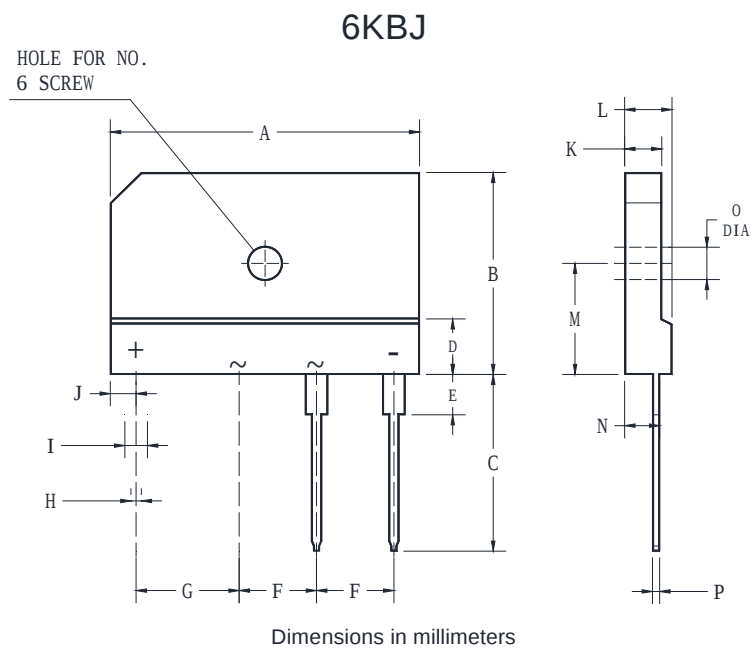
■Ordering Information (Example)

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

■ Characteristics(Typical)



■ 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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