

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- UL Recognition
- Thin Single in-line Package
- High Surge Current Capability
- Solder Dip, Per JESD 22-B106

APPLICATIONS

- General Purpose use in AC/DC Bridge full Wave Rectification
- for Switching Power Supply, Home Appliances, Office Equipment, Industrial Automation Applications

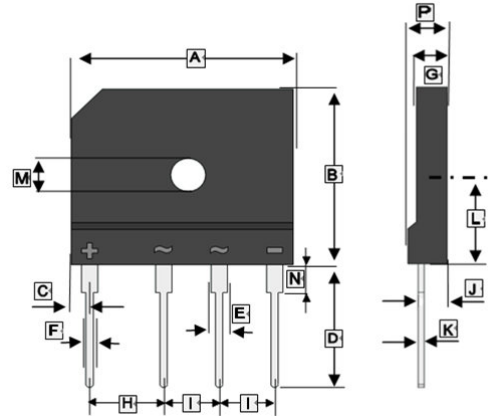
MECHANICAL DATA

- Molding Compound Meets UL 94 V-0 Flammability Rating
- Terminals: Tin Plated Leads, Solderable Per J-STD-002 and JESD22-B102
- Polarity: As Marked on Body

ORDER INFORMATION

Part Number	Type
GBJL2506	Lead (Pb)-free
GBJL2506-C	Lead (Pb)-free and Halogen-free

GBJ



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	29.7	30.3	I	7.3	7.7
B	19.7	20.3	J	3.1	3.7
C	2.3	2.7	K	0.6	0.8
D	17	18	L	10.8	11.2
E	2.0	2.4	M	∅3.1	∅3.4
F	0.9	1.1	N	3.8	4.2
G	3.4	3.8	P	4.4	4.8
H	9.8	10.2			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ Unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Average Rectified Output Current @60Hz Sine Wave, R-load	I_O	with heat sink @ $T_C=87^\circ\text{C}$	25
		without heat sink @ $T_A=25^\circ\text{C}$	3.5
Surge(Non-Repetitive)forward Current @60Hz Half Sine Wave, 1 Cycle, $T_J=25^\circ\text{C}$	I_{FSM}	420	A
Maximum Instantaneous Forward Voltage Drop Per Diode @ $I_{FM}=12.5\text{A}$	V_F	0.92	V
Maximum DC Reverse Current @Rated DC Blocking Voltage Per Diode, $V_{RM}=V_{RRM}$	I_{RRM}	10	μA
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_J=25^\circ\text{C}$, Rating of Per Diode	I^2t	730	A^2s
Dielectric Strength @Terminals to Case, AC 1 minute	V_{dis}	2.5	KV
Mounting Torque @Recommend Torque: 5kg·cm	T_{or}	8	Kg·cm
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	22	$^\circ\text{C/W}$
Thermal Resistance Junction-Case	$R_{\theta JC}$	1.5	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55~150	$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

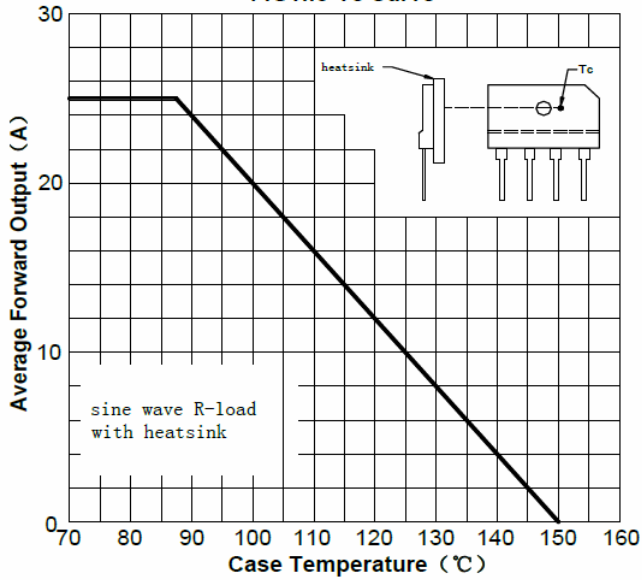


FIG2: Surge Forward Current Capability

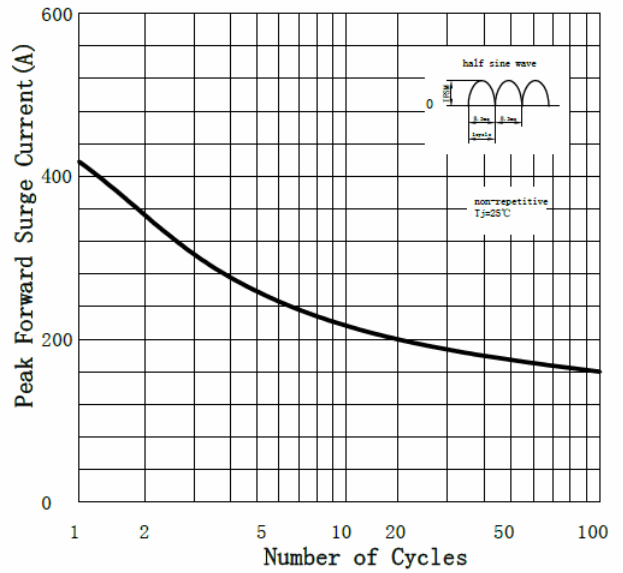


FIG3: Forward Voltage

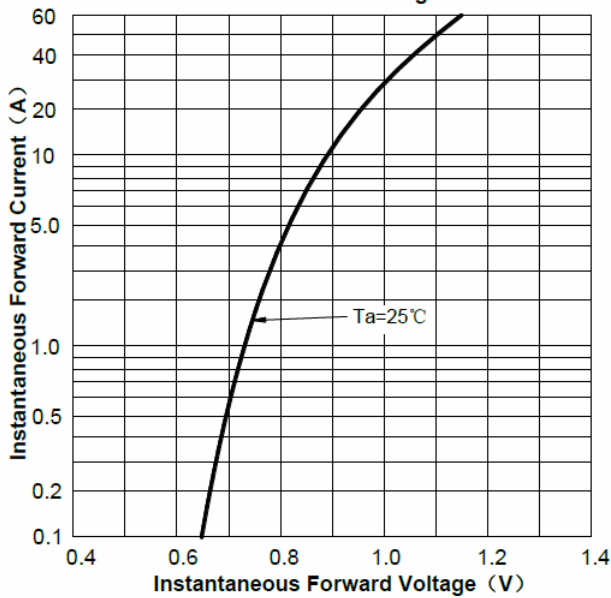


FIG4: Typical Reverse Characteristics

