Elektronische Bauelemente

GBJL2506

Voltage 600V, 25Amp
Low V_F Bridge Rectifiers

RoHS Compliant Product

FEATURES

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

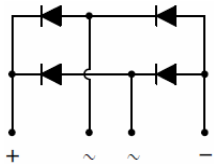
GBJ

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 and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C Unless otherwise specified)

Parameter		Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	600	V
Maximum RMS Voltage		V_{RMS}	420	
Maximum DC Blocking Voltage		V_{DC}	600	
Average Rectified Output Current @60Hz Sine Wave, R-load	with heat sink @T_C=104°C	I_O	25	A
	without heat sink @T_A=25°C		3.5	
Forward Surge Current (Non-Repetitive) @60Hz Half Sine Wave, 1 Cycle, T_J=25°C		I_{FSM}	420	A
Maximum Instantaneous Forward Voltage Drop Per Diode @I_{FM}=12.5A		V_F	0.92	V
Maximum DC Reverse Current @Rated DC Blocking Voltage Per Diode	T_J=25°C	I_R	5	μA
	T_J=125°C		200	
Typical Junction Capacitance Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C		C_J	280	pF
Current Squared Time @1ms≦t≦8.3ms T_J=25°C, Rating of Per Diode		I^2t	730	A^2s
Thermal Resistance Junction-Ambient	without heat sink	$R_{\theta JA}$	18	°C/W
Thermal Resistance Junction-Case	with heat sink	$R_{\theta JC}$	1	°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150	°C

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RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

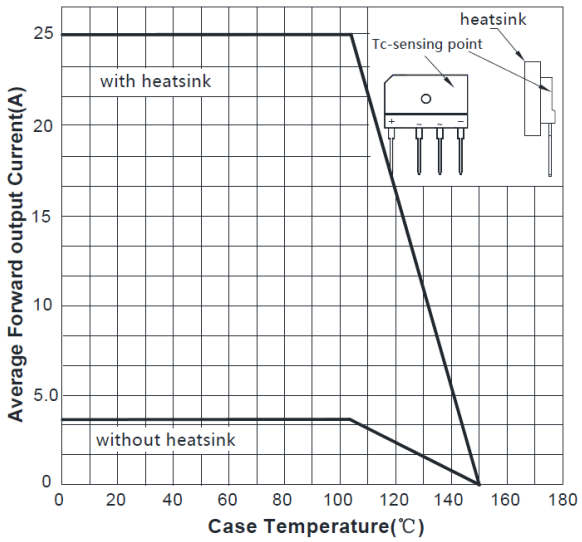


FIG2:Surge Forward Current Capability

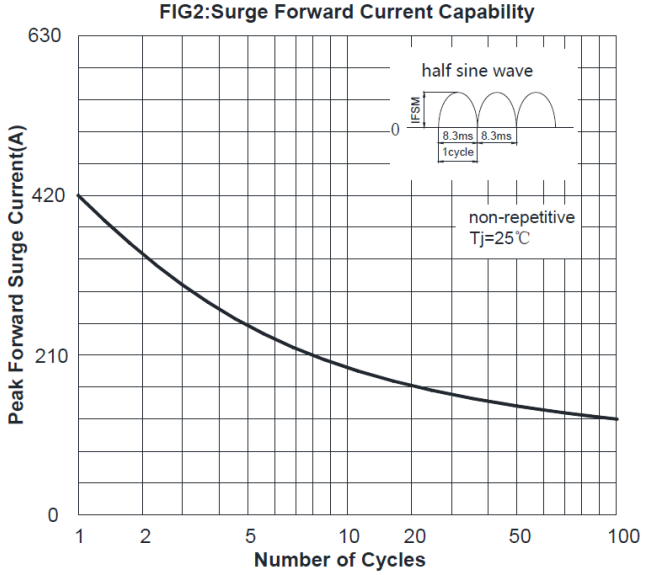


FIG3: Typical Forward Voltage

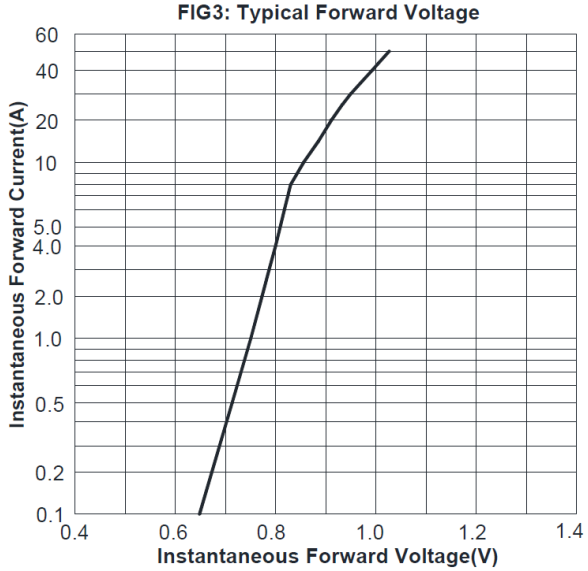
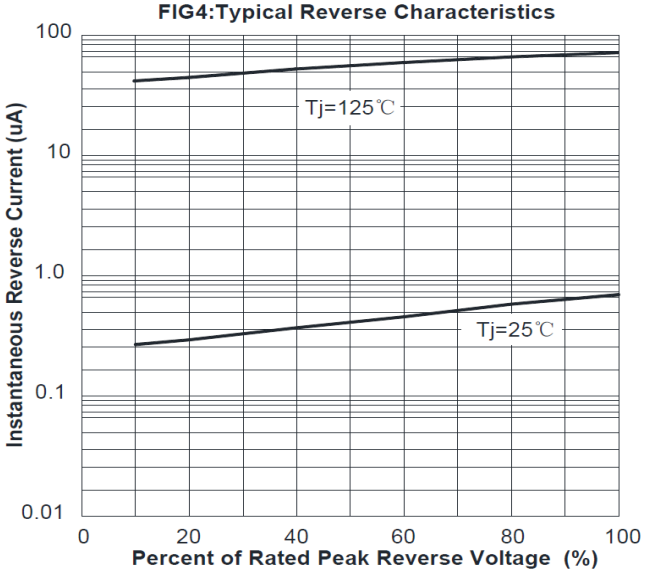


FIG4:Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSION

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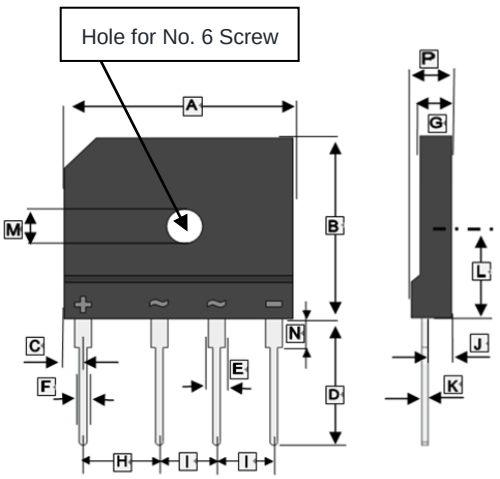

REF.	Millimeter	
	Min.	Max.
A	29.7	30.3
B	19.7	20.3
C	2.3	2.7
D	17	18
E	2.0	2.4
F	0.9	1.1
G	3.4	3.8
H	9.8	10.2
I	7.3	7.7
J	2.5	2.9
K	0.6	0.8
L	10.8	11.2
M	φ3.1	φ3.4
N	3.8	4.2
P	4.4	4.8