

15A Super Fast Recovery Rectifier Bridge

Reverse Voltage - 300 to 600 V
Forward Current –15A

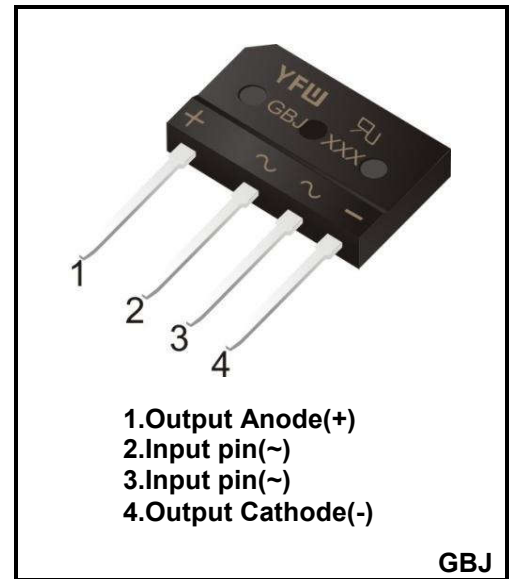


FEATURES

- ◆Surge overload rating-200 amperes peak
- ◆Polarity: As marked on body
- ◆Ideal for printed circuit board
- ◆Plastic material has U/L The flammability classification 94V-0
- ◆Reliable low cost construction utilizing molded plastic technique

MECHANICAL DATA

- ◆Case: GBJ
- ◆Terminals: Solderable per MIL-STD-202, Method208
- ◆Approx. Weight: 6.79g /0.24oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	GBJ1503SF	GBJ1506SF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	300	600	V
Maximum RMS voltage	V_{RMS}	200	420	V
Maximum DC Blocking Voltage	V_{DC}	300	600	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	15		A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	250		A
Forward Voltage per element @ $I_F=15A$ DC	V_F	1.20	1.50	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R	10 500		μA
I2t Rating for Fusing(3ms≤t≤8.3ms)	I^2t	166		A ² S
Typical Junction Capacitance (Note1)	C_j	66		pF
Maximum Reverse Recovery Time (Note2)	T_{rr}	38	45	nS
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	2.3		°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175		°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) Device mounted on 75mm*75mm*1.6mm cu plate heatsink

Ratings and Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

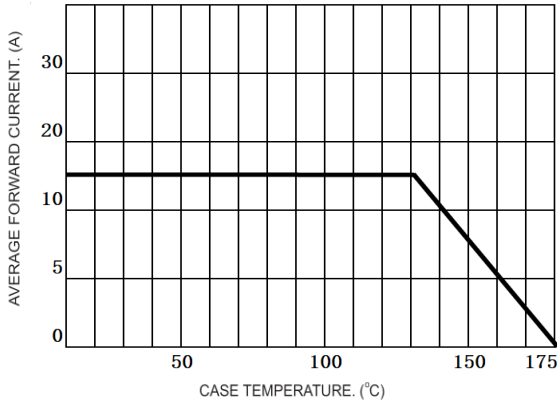


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

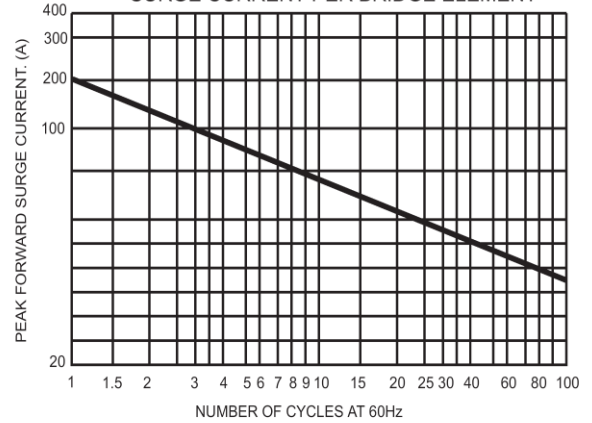


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

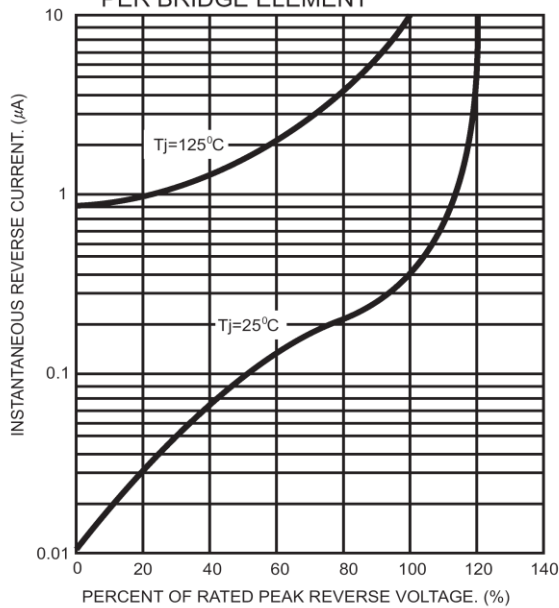


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

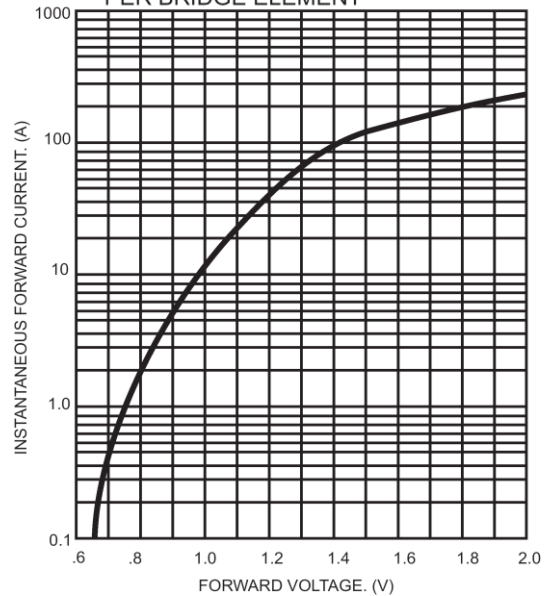
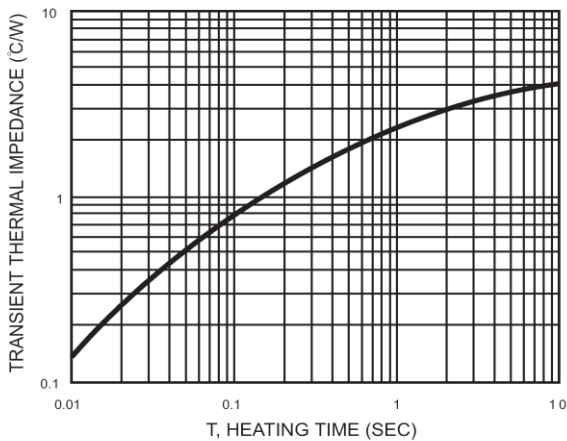
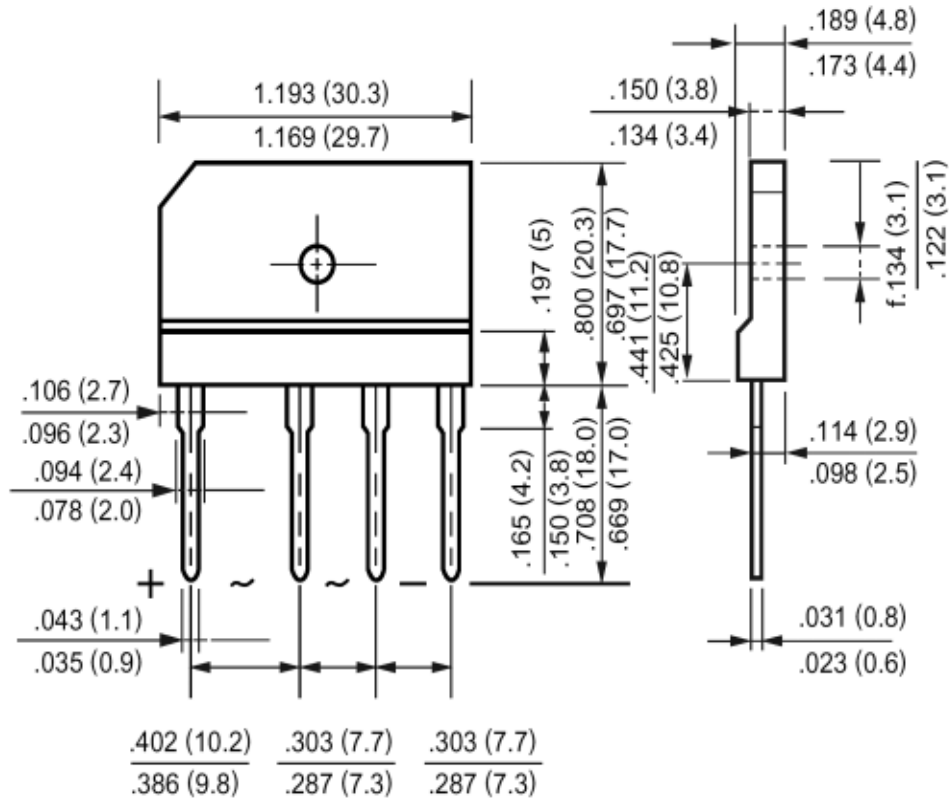


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE





Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBJ	BOX	200	EIA-481-1

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