GLASS PASSIVATED

BRIDGE RECTIFIERS

REVERSE VOLTAGE - **600**Volts

FORWARD CURRENT - **8.0** Amperes

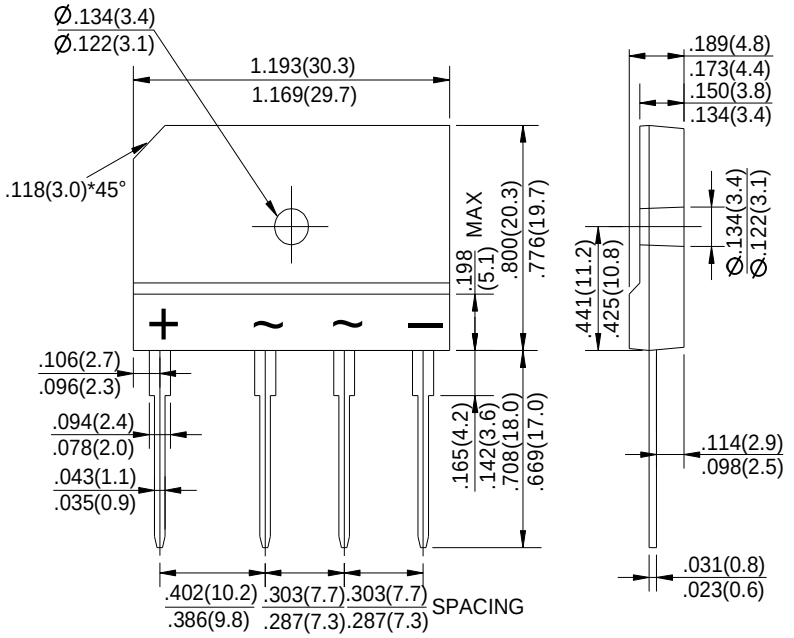
Features

- Rating 600V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has U/L flammability classification 94V-0

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Dimensions In Inches and (milimeters)



GBJ

Part Number Code

T	G	B	J	6	0	6	F
1	2	3	4	5	6	7	8

Product Type	
TSK	TGBJ series

Peak Repetitive Reverse Voltage (V)	
06	600V

I_O (A)	
6	6A
8	8A
20	20A

V_F Type	
F	0.95
L	0.92
U	0.90/0.89

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TGBJ806L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T_C=100 (without heatsink)	$I_{(AV)}$	8.0 3.4	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	200	A
Maximum Forward Voltage at 4.0A DC	V_F	0.92	V
Maximum DC Reverse Current @ T_J=25 at Rated DC Blocking Voltage @ T_J=125	I_R	10.0 500	μA
I^2t Rating for Fusing (t<8.3ms)	I^2t	166	A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	55	pF
Typical Thermal Resistance	R_{JC}	1.8	℃/W
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

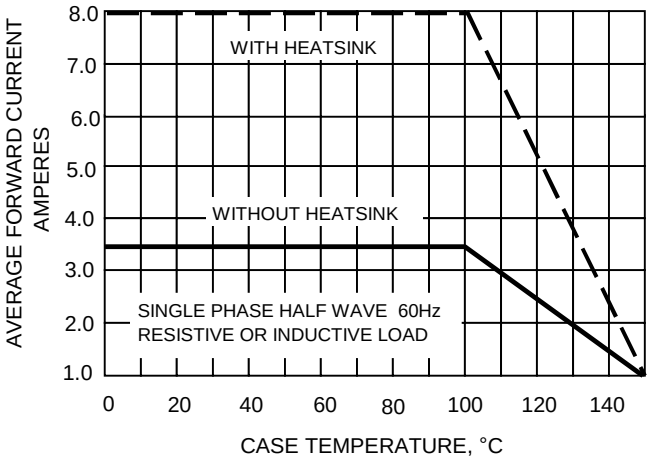
NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.

3.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE



FLG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

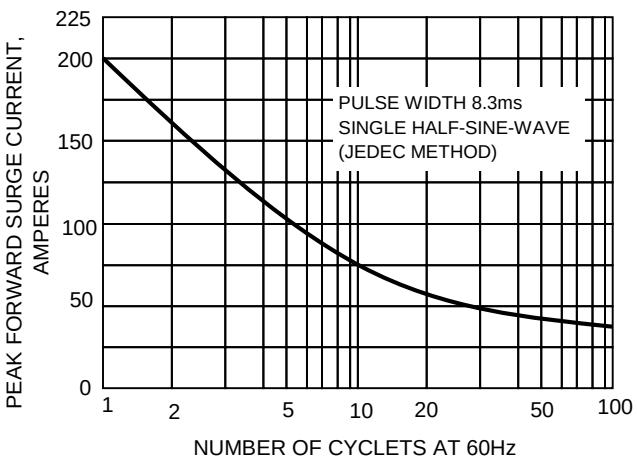


FIG.3-TYPICAL JUNCTION CAPACITANCE

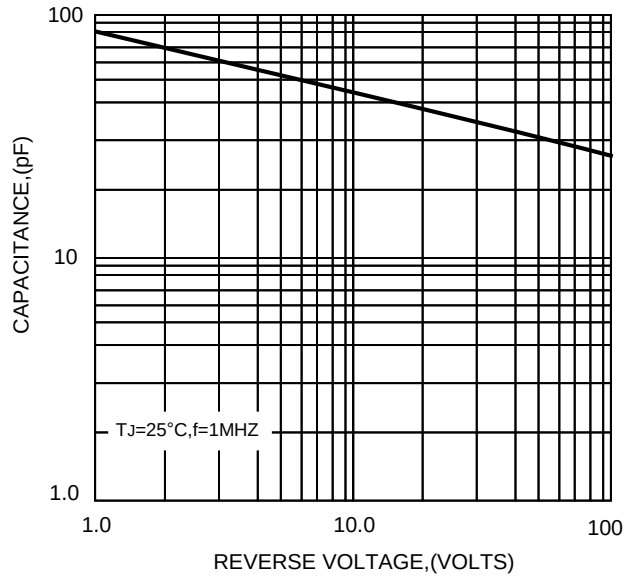


FIG.4-TYPICAL FORWARD CHARACTERISTICS

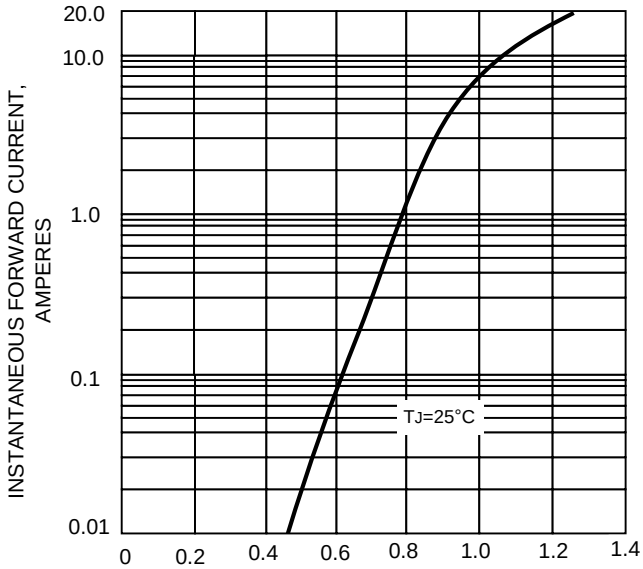


FIG.5-TYPICAL REVERSE CHARACTERISTICS