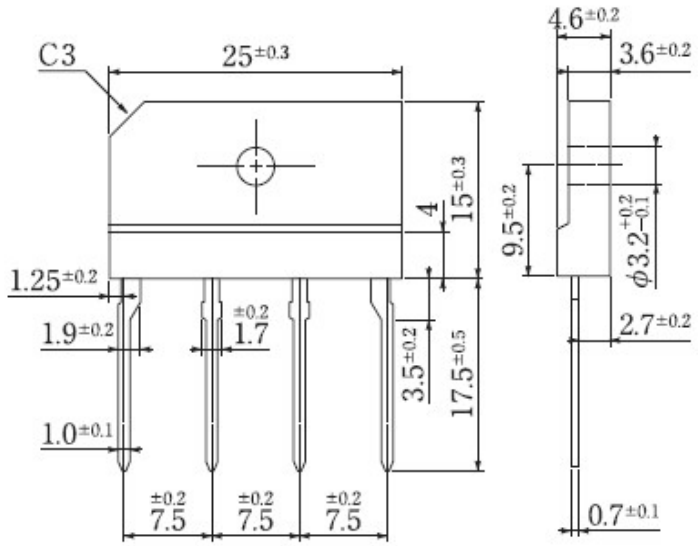
Glass Passivated Bridge Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 4.0 Amperes

Features
- UL Recognized File # E-96005
- Glass passivated junction
- Surge overload rating 125 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material used carries underwriters laboratory classification 94V-O
- Mounting Position: Any

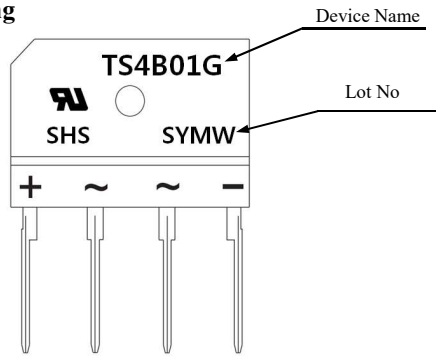
Mechanical Data
- Case : Molded plastic
- Terminals : Leads solderable per MIL-STD-750 Method 2026
- Weight : 4 grams

TS-4B



Dimensions in inches and (millimeters)

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified
Single phase half wave 60 Hz, resistive or inductive load
For capacitive load, derate current by 20%

Parameter	Symbol	TS4B 01G	TS4B 02G	TS4B 03G	TS4B 04G	TS4B 05G	TS4B 06G	TS4B 07G	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	$I_F(AV)$	4.0							A	Note 1
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	125							A	
Maximum Instantaneous Forward Voltage @4.0A	V_F	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0							uA	Ta=25℃
		500							uA	Ta=125℃
Typical Thermal Resistance	Rth(j-c)	5.5							℃ /W	Note 1
Operating Temperature Range	T_J	-55 to +150							℃	
Storage Temperature Range	T_{STG}	-55 to +150							℃	

Note 1. Thermal Resistance from Junction to Case with Device Mounted on 2"× 3" × 0.25" Al Plate Heatsink
Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C

Ratings and Characteristics Curves (Ta=25℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

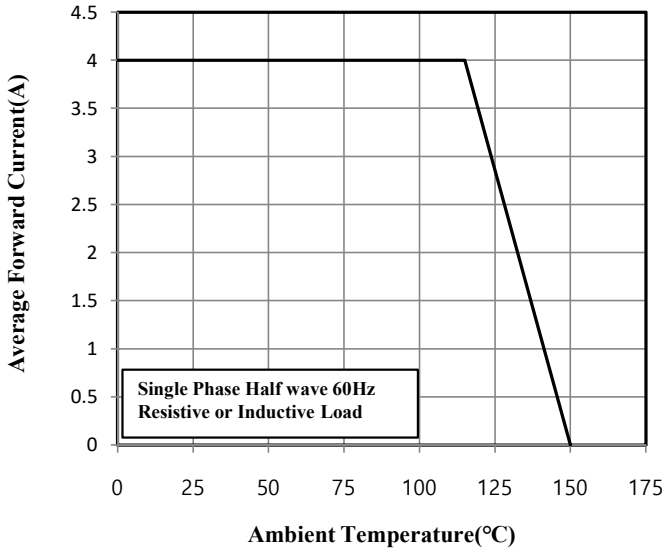


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

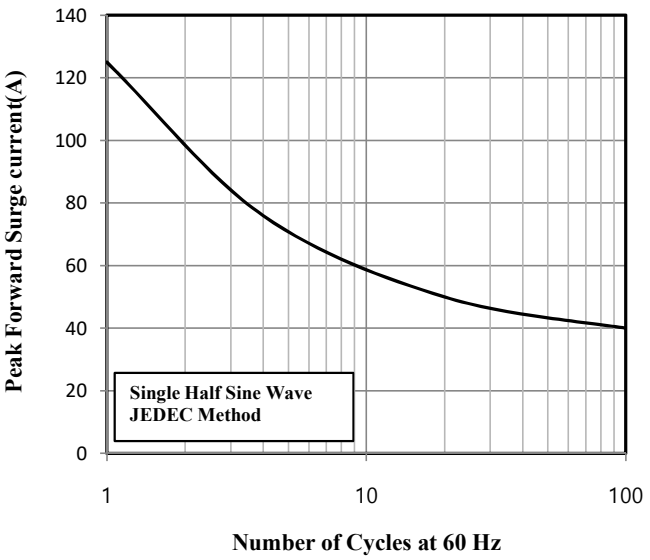


Fig.3 Typical Instantaneous Forward Characteristics

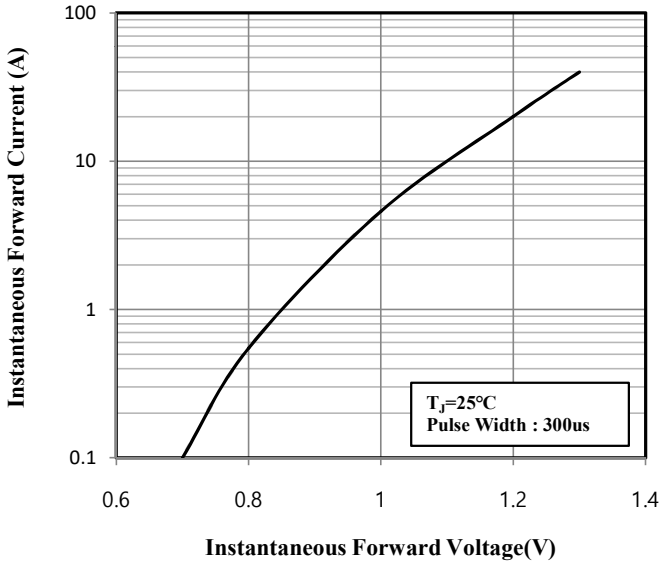


Fig.4 Typical Reverse Charateristics