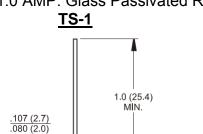
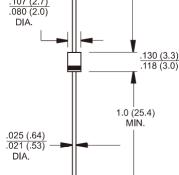
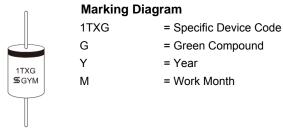


1.0 AMP. Glass Passivated Rectifiers





Dimensions in inches and (millimeters)



TAIWAN SEMICONDUCTOR



Features

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- High surge current capability
- ♦ 3mm miniature body
- Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: Molded plastic
- → Epoxy: UL 94V-0 rate flame retardant
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10s
 /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.20 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	1T1G	1T2G	1T3G	1T4G	1T5G	1T6G	1T7G	Unit
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 .375"(9.5mm) Lead Length @ T_A =50 $^{\circ}$ C	I _{F(AV)}	1							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30						Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	1.1 1.0					V		
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =125 $^{\circ}$ C	I _R	5 100						uA	
Typical Junction Capacitance (Note 2)	Cj	10							pF
Typical Thermal Resistance (Note 3)	$R_{\theta jA}$	100							°C/W
Operating Temperature Range	TJ	- 65 to + 150							οС
Storage Temperature Range	T _{STG}	- 65 to + 150							οС

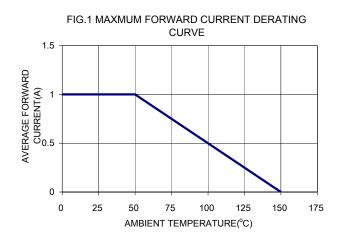
Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

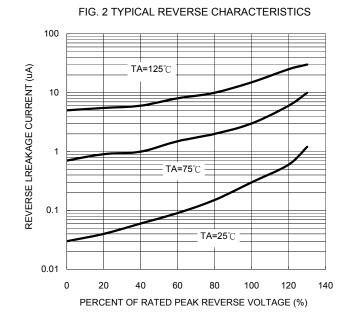
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

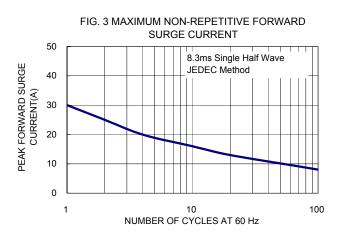
Note3: Mount on Cu-Pad Size 5mm × 5mm on P.C.B.

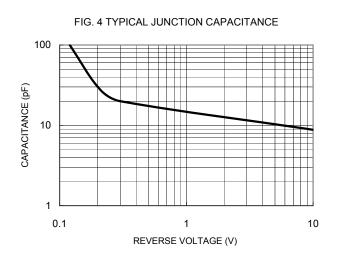


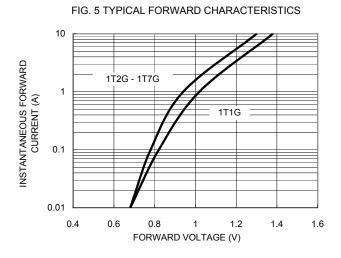
RATINGS AND CHARACTERISTIC CURVES (1T1G THRU 1T7G)











Version:C10