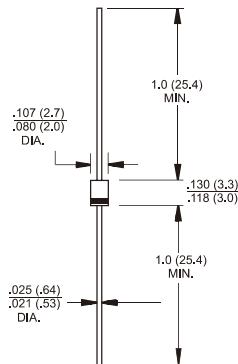




1T1G - 1T7G

1.0 AMP. Glass Passivated Rectifiers

TS-1



Dimensions in inches and (millimeters)

Marking Diagram



1TXG = Specific Device Code
 G = Green Compound
 Y = Year
 M = Work Month

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

- ◊ Cases: Molded plastic
- ◊ Epoxy: UL 94V-0 rate flame retardant
- ◊ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ◊ Polarity: Color band denotes cathode end
- ◊ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◊ Weight: 0.20 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

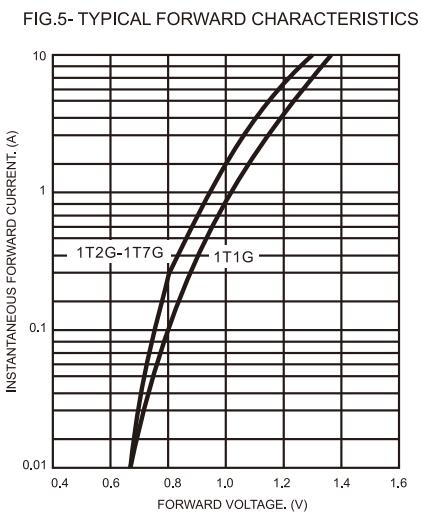
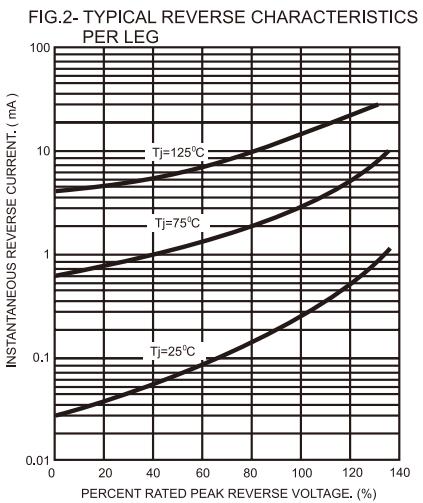
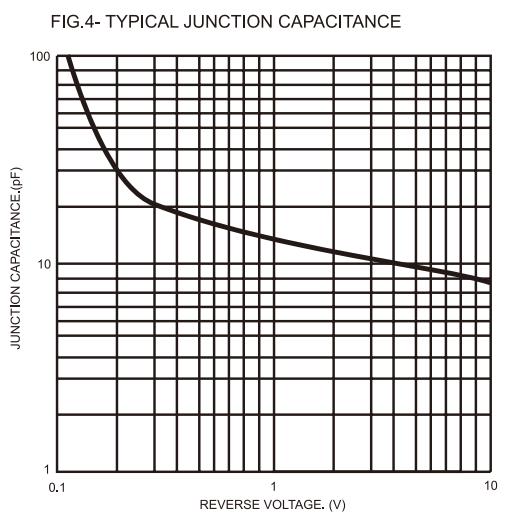
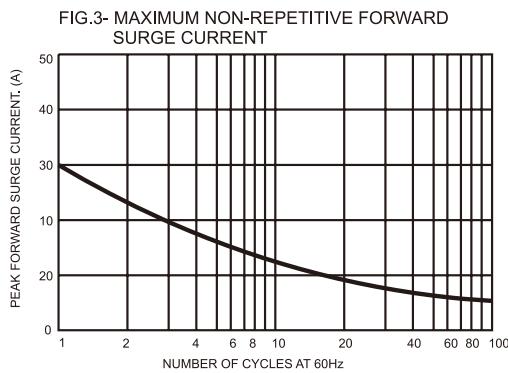
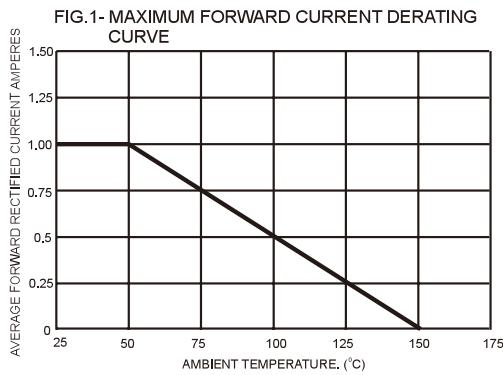
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	1T1G	1T2G	1T3G	1T4G	1T5G	1T6G	1T7G	Units		
Maximum Recurrent 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 °C)	I _{F(AV)}	1.0						A			
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30						A			
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.1		1.0		V					
Maximum DC Reverse Current at @ T _A =25°C Rated DC Blocking Voltage (Note 1) @ T _A =125°C	I _R	5.0 100						uA uA			
Typical Junction Capacitance (Note 3)	C _j	10						pF			
Typical Thermal Resistance (Note 2)	R _{θJA}	100						°C/W			
Operating Temperature Range	T _J	-65 to +150						°C			
Storage Temperature Range	T _{STG}	-65 to +150						°C			

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
 2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.
 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

Version: C10

RATINGS AND CHARACTERISTIC CURVES (1T1G THRU 1T7G)


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