

F1T1G - F1T7G

1.0 AMP. Glass Passivated Fast Recovery Rectifiers





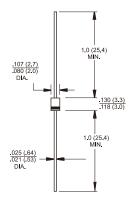


Features

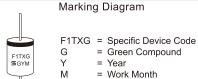
- ♦ Glass passivated chip junction.
- → High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, Lead free., 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
- ♦ Mounting position: Any
- ♦ Weight: 0.20 grams



Dimensions in inches and (millimeters)



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	F1T 1G	F1T 2G	F1T 3G	F1T 4G	F1T 5G	F1T 6G	F1T 7G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_A = 55$ °C	I F(AV)	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I FSM	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.3							V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	İR	5.0 150							uA uA
Maximum Reverse Recovery Time (Note 4)	Trr	150 250 500				nS			
Typical Junction Capacitance (Note 2)	Cj	15							pF
Typical Thermal Resistance (Note 3)	Rөja	90							°C/W
Operating Temperature Range T _J	Тл	-65 to +150							°C
Storage Temperature Range T _{STG}	Тѕтс	-65 to +150							°C

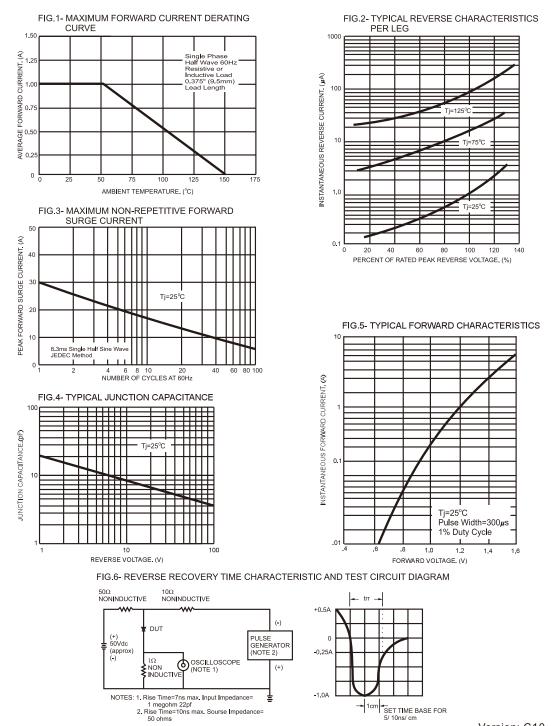
Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4. 0 Volts D.C.
- 3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.
- 4. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Version: C10



RATINGS AND CHARACTERISTIC CURVES (F1T1G THRU F1T7G)



Version: C10