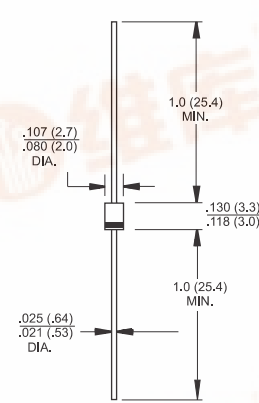


	F1T1G THRU F1T7G 1.0 AMP. Glass Passivated Fast Recovery Rectifiers									
				Voltage Range 50 to 1000 Volts Current 1.0 Ampere						
Features ✧ Low forward voltage drop ✧ High current capability ✧ High reliability ✧ High surge current capability				TS-1  Dimensions in inches and (millimeters)						
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 ✧ Mounting position: Any ✧ Weight: 0.20 gram										
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		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 = 55°C		I _(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	1.3							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C		I _R	5.0 100							µA µA
Maximum Reverse Recovery Time (Note 1)		T _{rr}	150				250	500		nS
Typical Junction Capacitance (Note 2)		C _j	15							pF
Typical Thermal Resistance (Note 3)		Rθ _{JA}	90							°C/W
Operating Temperature Range		T _J	-65 to +150							°C
Storage Temperature Range		T _{STG}	-65 to +150							°C

Notes: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
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.



RATINGS AND CHARACTERISTIC CURVES (F1T1G THRU F1T7G)

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

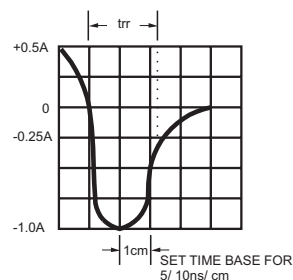
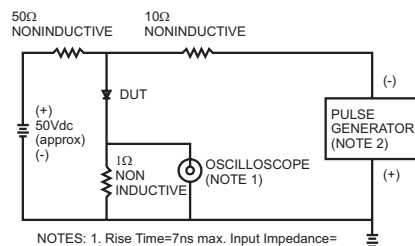


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

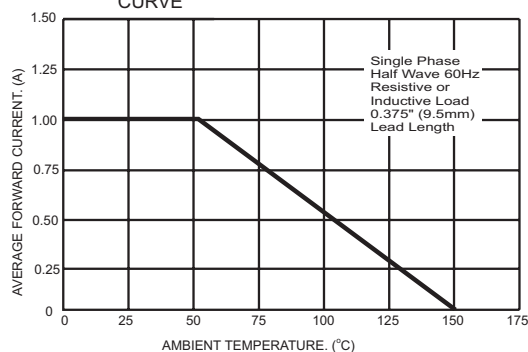


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

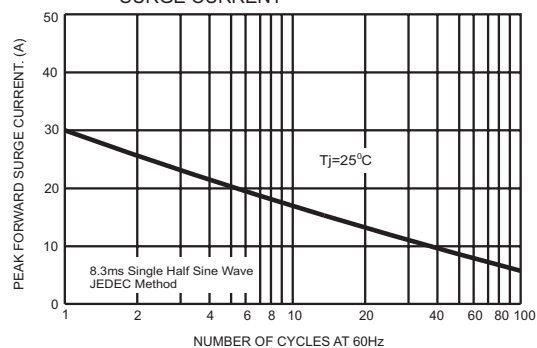


FIG.4- TYPICAL JUNCTION CAPACITANCE

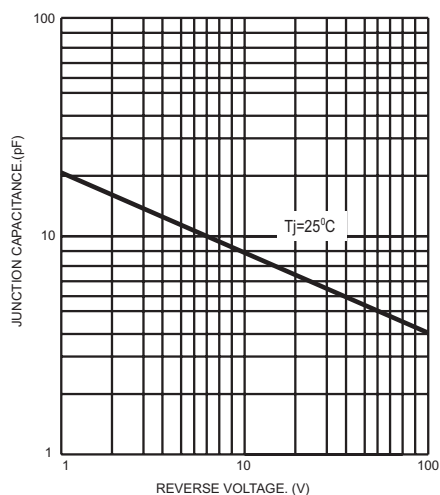


FIG.5- TYPICAL FORWARD CHARACTERISTICS

