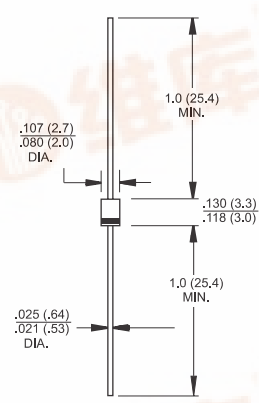


	F1T1 THRU F1T7 1.0 AMP. Fast Recovery Rectifiers									
					Voltage Range 50 to 1000 Volts Current 1.0 Ampere					
Features - Low forward voltage drop - High current capability - High reliability - High surge current capability Mechanical Data - Cases: Molded plastic - Epoxy: UL 94V-0 rate flame retardant - 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 gram					TS-1  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	F1T1	F1T2	F1T3	F1T4	F1T5	F1T6	F1T7	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 @ $T_A = 55^{\circ}\text{C}$	$I_{(AV)}$	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	1.2							V	
Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}\text{C}$	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	10							pF	
Typical Thermal Resistance (Note 3)	$R\theta_{JA}$	100							$^{\circ}\text{C/W}$	
Operating Temperature Range	T_J	-65 to +150							$^{\circ}\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150							$^{\circ}\text{C}$	

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 (F1T1 THRU F1T7)

FIG.1- MAXIMUM TYPICAL FORWARD CURRENT DERATING CURVE

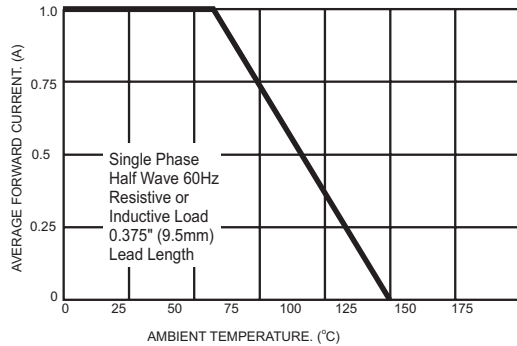


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

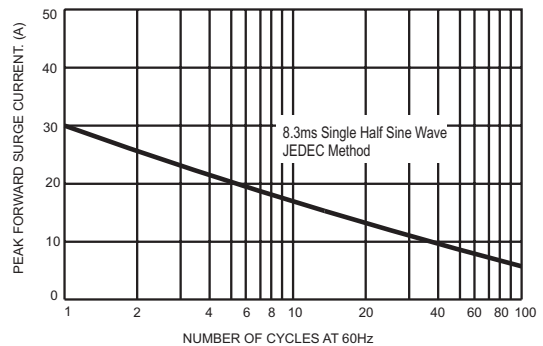


FIG.3- TYPICAL FORWARD CHARACTERISTICS

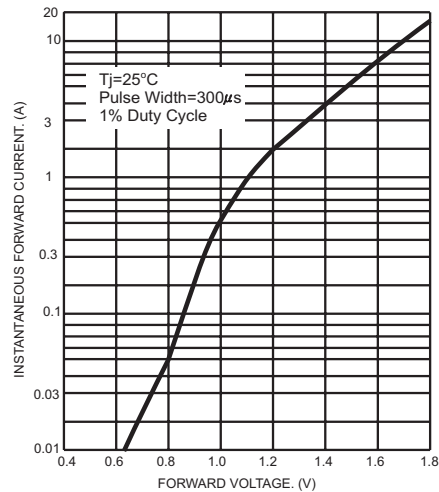


FIG.4- TYPICAL JUNCTION CAPACITANCE

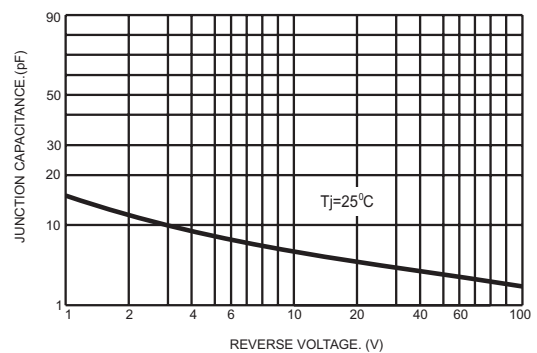


FIG.5- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

