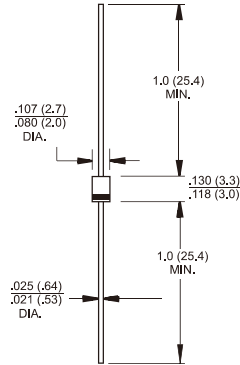


1T1 - 1T7

1.0 AMP. Silicon Rectifiers

TS-1



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"(.95mm) lead lengths at 5 lbs.,(2.3kg) tension
- ✧ Weight: 0.20 grams

Dimensions in inches and (millimeters)

Marking Diagram



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

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	1T1	1T2	1T3	1T4	1T5	1T6	1T7	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 = 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	1.0							V
Maximum DC Reverse Current at @ T _A =25°C Rated DC Blocking Voltage (Note 1) @ T _A =125 °C	I _R	5.0 50							uA uA
Maximum Full Load Reverse Current ,Full Cycle Average .375"(9.5mm) Lead Length @T _A =50 °C	I _{R(AV)}	30							uA
Typical Junction Capacitance (Note 3)	C _j	15							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	50							°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 Volts D.C.

RATINGS AND CHARACTERISTIC CURVES (1T1 THRU 1T7)

