



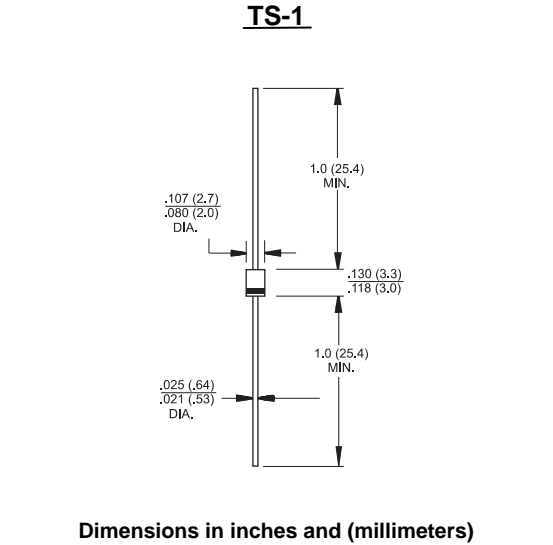
1T1G THRU 1T7G

1.0 AMP. Glass Passivated 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
 - ✧ 3mm miniature body
- 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



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 @ $T_A = 50^\circ C$	$I_{(AV)}$	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	1.1		1.0				V	
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	5.0 100							uA uA
Typical Junction Capacitance (Note 1)	C_j	10							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	100							°C/W
Operating Temperature Range	T_J	-65 to +150							°C
Storage Temperature Range	T_{STG}	-65 to +150							°C

Note: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

RATINGS AND CHARACTERISTIC CURVES (1T1G THRU 1T7G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

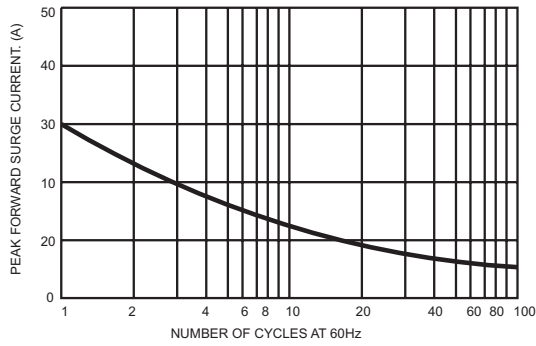


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

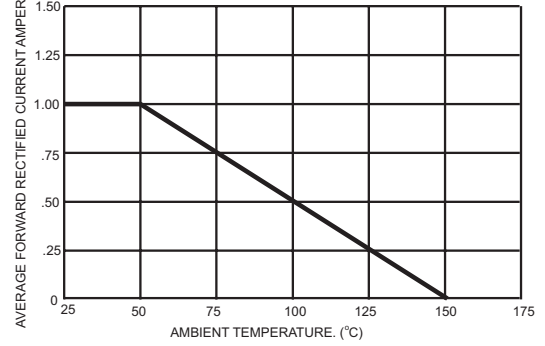


FIG.3- TYPICAL JUNCTION CAPACITANCE

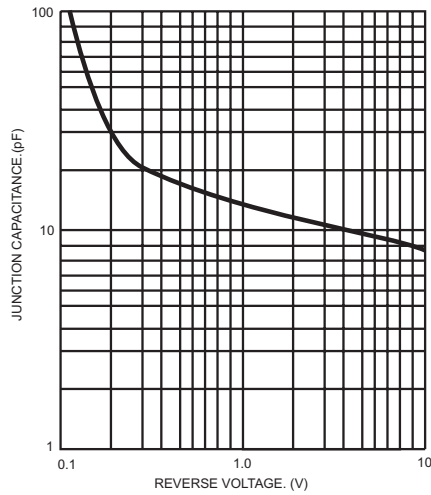
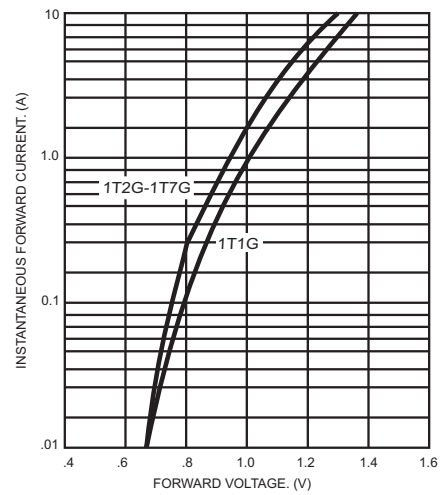


FIG.4- TYPICAL FORWARD CHARACTERISTICS



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Datasheets for electronics components.