



SEMICONDUCTOR

# T1 THRU T7

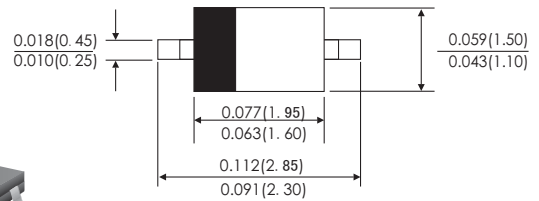
Surface Mount Glass Passivated Rectifier  
Reverse Voltage - 50 to 1000 Volts  
Forward Current -0.3Ampere

## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed:260°C/10 seconds at terminals  
Component in accordance to RoHs 2011/65/EU

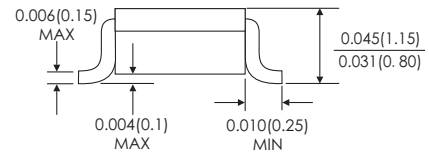


## SOD-323



## MECHANICAL DATA

- Case: SOD-323 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz,,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	T1	T2	T3	T4	T5	T6	T7	Units	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts	
Maximum average Forward Rectified Current	$I_{(AV)}$	0.3							Amp	
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	15							Amps	
Maximum Instantaneous Forward Voltage at 0.3 A	$V_F$	1.1							Volts	
Maximum Reverse current at rated DC Blocking Voltage	$I_R$	$T_A=25^{\circ}C$	5							$\mu A$
		$T_A=125^{\circ}C$	50							
Typical Thermal resistance (Note 2)	$R_{\theta JL}$	35							$^{\circ}C/W$	
Operating and Storage temperature Range	$T_J$	-55 to+150							$^{\circ}C$	
	$T_{STG}$									

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2. Mounted on PCB with 0.2×0.2" (5.0×5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES T1 THRU T7

FIG.1-FORWARD CURRENT DERATING CURVE

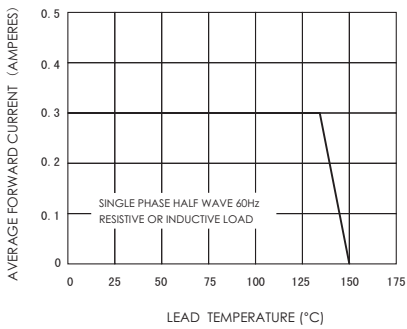


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

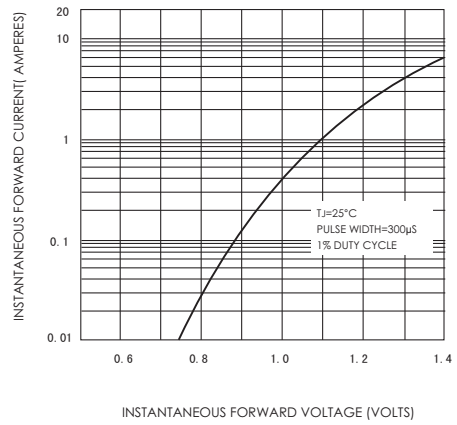


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

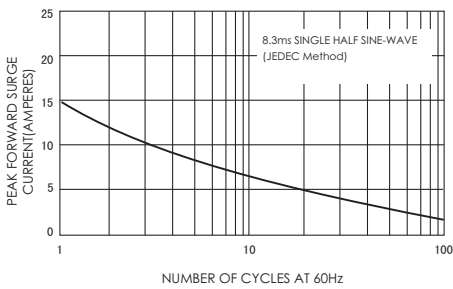


FIG.4-TYPICAL REVERSE CHARACTERISTICS

