

**Features**

- High Speed Switching Diode
- Fast Switching Speed
- For General Purpose Switching Applications
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C

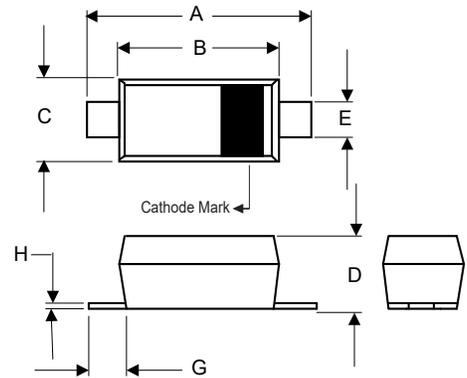
MCC Part Number	Device Marking
1SS355L	T4

Parameter	Symbol	Value
Peak Repetitive Reverse Voltage	$V_{RRM}$	90V
DC Reverse Voltage	$V_R$	80V
RMS Reverse Voltage	$V_{R(RMS)}$	63V
Forward Continuous Current	$I_{FM}$	150mA
Peak Forward Surge Current	$I_{FSM}$	0.5A

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

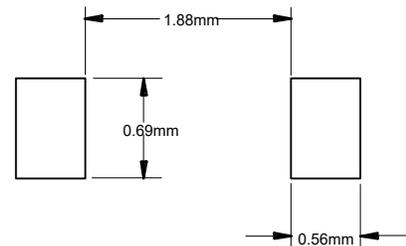
**90 Volt Switching Diode**

**SOD-323FL**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.078	1.60	1.95	
C	0.045	0.053	1.15	1.35	
D	0.024	0.035	0.60	0.90	
E	0.010	0.016	0.25	0.40	
G	0.016		0.40		
H	0.002	0.008	0.05	0.21	

**Suggested Solder Pad Layout**



**Electrical Characteristics @ 25°C (Unless Otherwise Specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward Voltage	$V_F$	$I_F=100\text{mA}$			1.2	V
Reverse Current	$I_R$	$V_R=80\text{V}$			0.1	$\mu\text{A}$
Junction Capacitance	$C_J$	$V_R = 6\text{V}, f = 1\text{MHz}$		3		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns

\* Pulse Test: Pulse Width 300  $\mu\text{sec}$ , Duty Cycle 2%

## Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

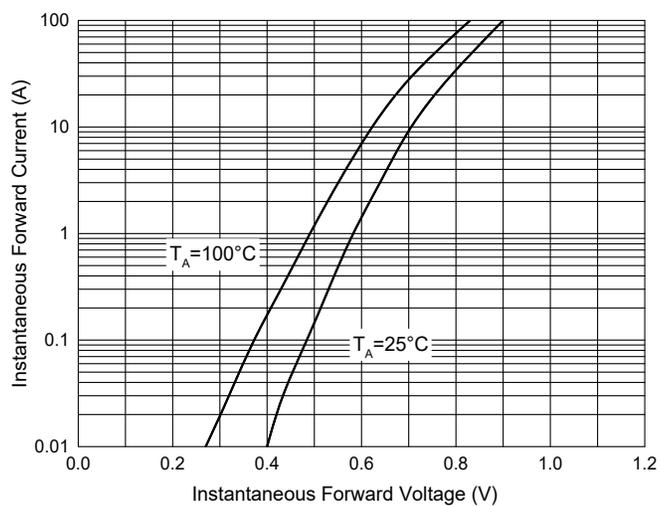


Fig. 2 - Typical Reverse Leakage Characteristics

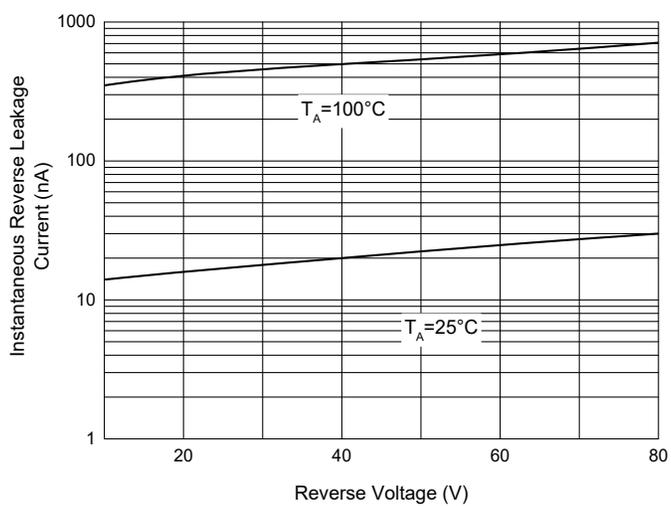
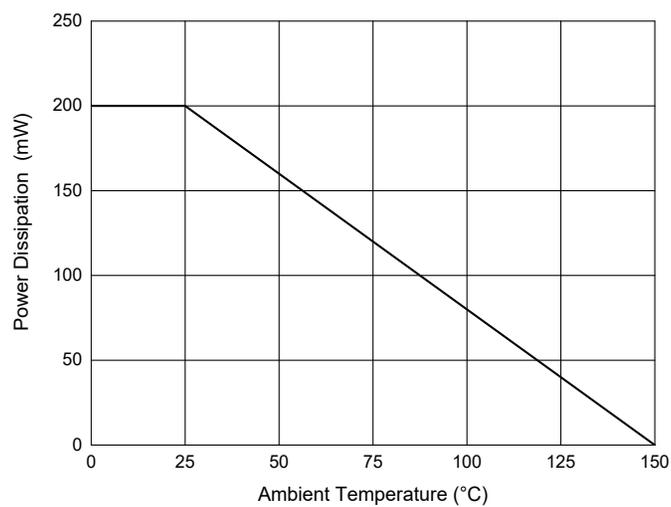


Fig. 3 - Power Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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