



**THE DATASHEET OF  
1SS355-TP-HF**



## 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

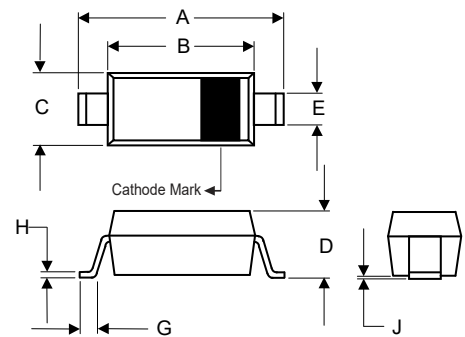
MCC Part Number	Device Marking
1SS355	A

Parameter	Symbol	Value
Peak Repetitive Reverse Voltage	$V_{RRM}$	90V
DC Reverse Voltage	$V_R$	80V
RMS Reverse Voltage	$V_{R(RMS)}$	63V
Peak Forward Current	$I_{FM}$	225mA
Average rectified output current	$I_O$	100mA
Peak Forward Surge Current @1s	$I_{FSM}$	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.

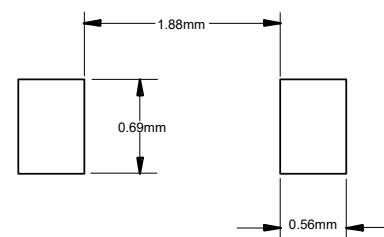
# 90 Volt Switching Diode

## SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

### 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 - Forward Characteristics

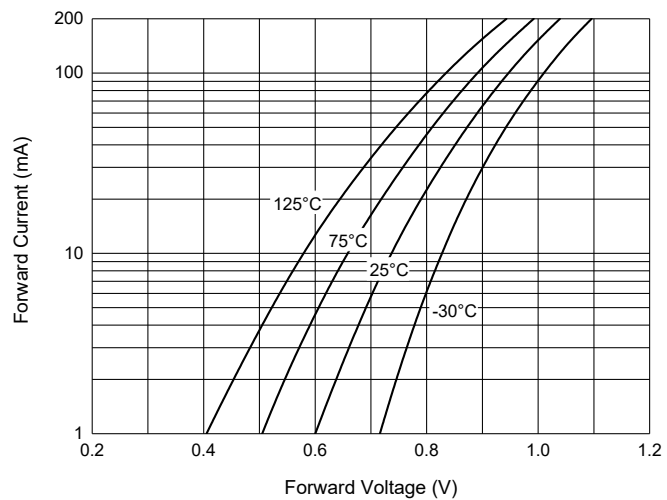


Fig. 2 - Reverse Characteristics

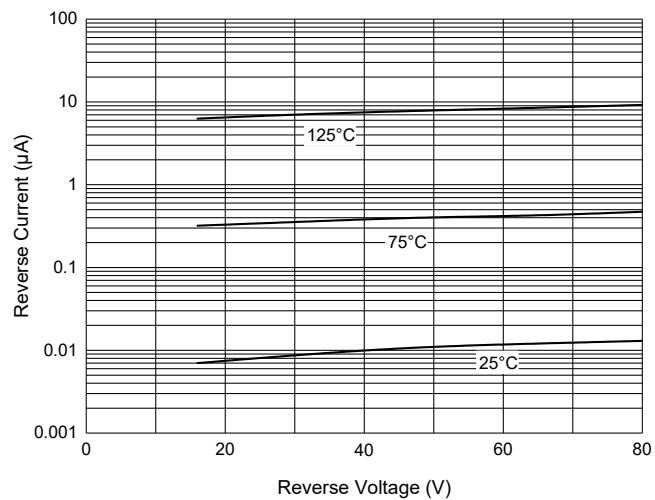
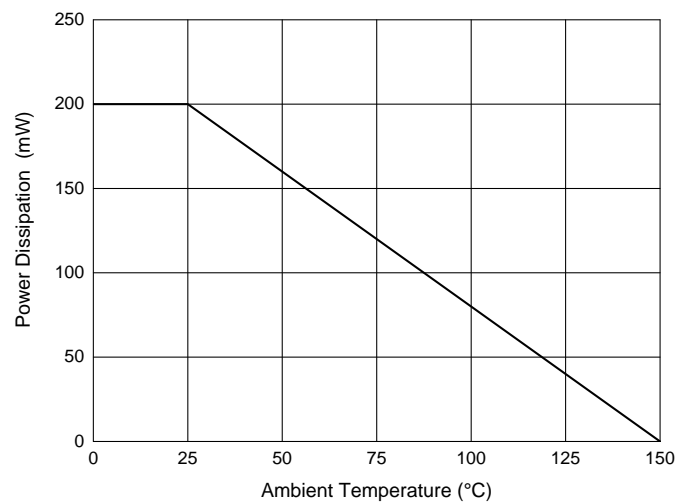


Fig. 3 - Power Derating Curve



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-13P	Tape&Reel: 10Kpcs/Reel

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