

### 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**

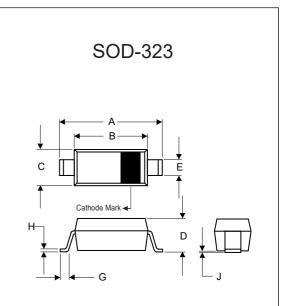
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C

MCC Part Number	Device Marking		
1SS355	А		

Parameter	Symbol	Value
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	90V
DC Reverse Voltage	V <sub>R</sub>	80V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	63V
Peak Forward Current	I <sub>FM</sub>	225mA
Average rectified output current	Ι <sub>ο</sub>	100mA
Peak Forward Surge Current @1s	I <sub>FSM</sub>	0.5A

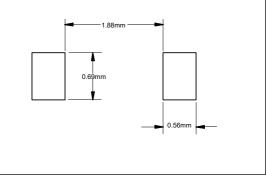
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# 90 Volt Switching Diode



	DIMENSIONS					
DIM INC		HES MM		NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	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		
Н	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.	Тур.	Max.	Units
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =100mA			1.2	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =80V			0.1	μA
Junction Capacitance	CJ	V <sub>R</sub> = 6V, f = 1MHz		3		pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> ,R <sub>L</sub> =100Ω			4	ns

\* Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



## **Curve Characteristics**

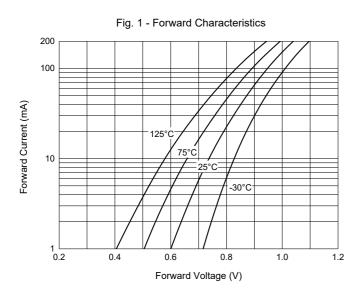
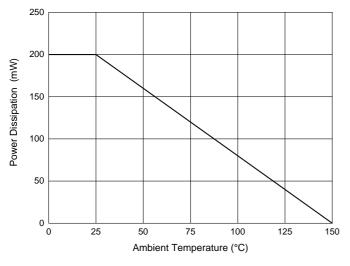
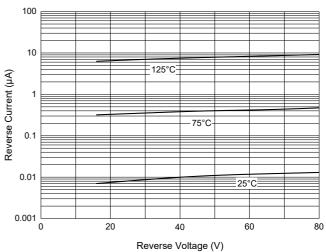


Fig. 3 - Power Derating Curve







### **Ordering Information**

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

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