

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- · High Speed Switching Diode
- · Fast Switching Speed
- For General Purpose Switching Applications
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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
- Thermal Resistance: 625°C/W Junction to Ambient (Note2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
1SS355HE3	90V	64V	90V

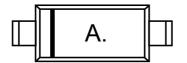
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Parameter	Symbol	Value	
Average Rectified Current	I _{F(AV)}	150mA	
Peak Forward Surge Current	I _{FSM}	0.5A	
Power Dissipation	P _D	200mW	

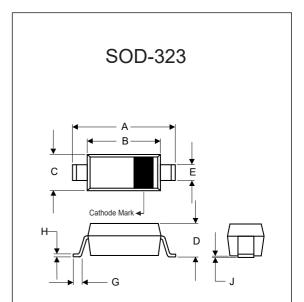
- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
 - 2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code



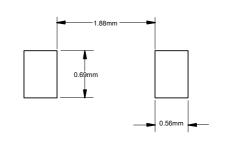


90 Volt Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.090	0.107	2.30	2.70	
В	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	
Е	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Τ	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





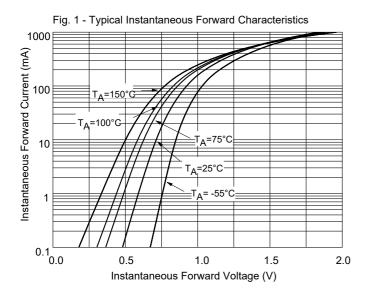
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

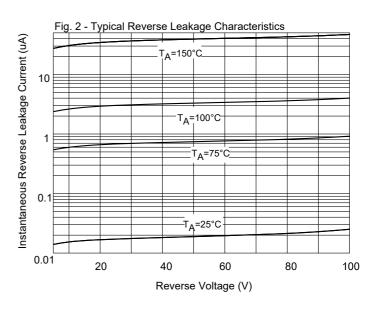
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	90			V
Forward Voltage	V _F	I _F =100mA			1.2	V
Reverse Current	I _R	V _R =80V			0.1	μA
Junction Capacitance	CJ	V _R = 6V, f = 1MHz			3	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 0.1 \times I_R, R_L = 100 \Omega$			4	ns

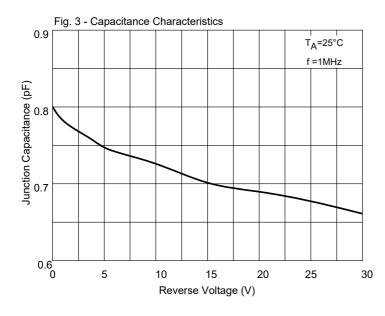
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

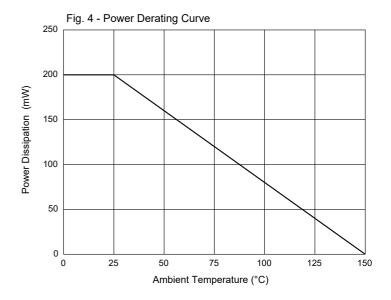


Curve Characteristics











Ordering Information

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

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