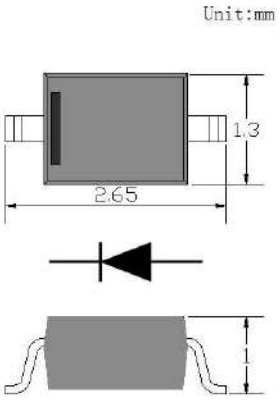
Switching Diode

Features

- General purpose diodes
- Fast switching devices
- SOD-323 Thin SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking
- The S-prefix is needed for automotive and other applications Unique site and control change requirements; AEC - Q101 Qualified with PPAP capability.

SOD-323



Device Marking Code	
S-1SS355-V	A.

Maximum Ratings @Ta=25℃

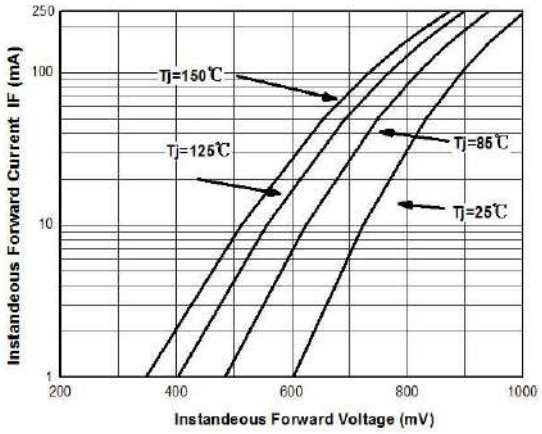
Symbol	Parameter	Value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	90	V
V_{RRM}	Repetitive Peak Reverse Voltage	80	V
V_R	DC blocking voltage	80	V
I_{FRM}	Repetitive Peak Forward Current	225	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	2	A
I_O	Mean rectifying Current	100	mA
I_{FM}	Peak Forward Current	225	mA
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature	-55 to +150	℃

*1 Pulse width = 1 μ s

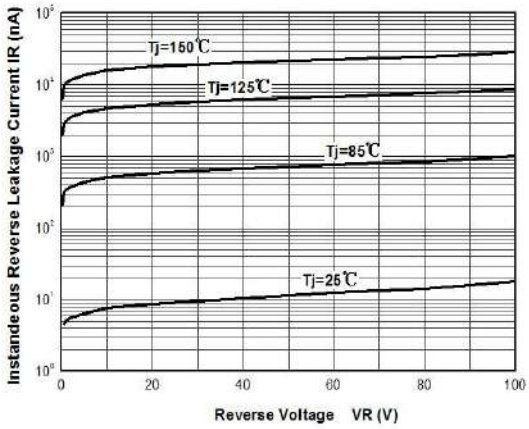
Electrical Characteristics @Ta=25℃

Symbol	Parameter	Conditions	Min	Max	Units
I_R	Reverse Current	V_R = 80V		0.1	μ A
V_F	Forward Voltage	I_F = 100mA		1.2	V
C	Capacitance	V_R = 0V, f = 1MHz		3	pF
T_{rr}	Reverse recovery time	IF=10mA ,VR=6V,RL=100Ω		4	ns

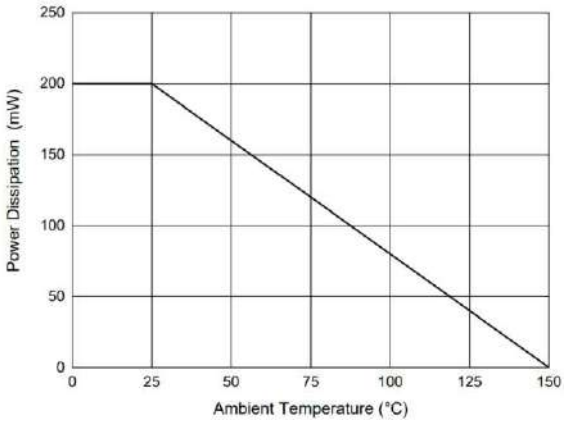
Typical Characteristics



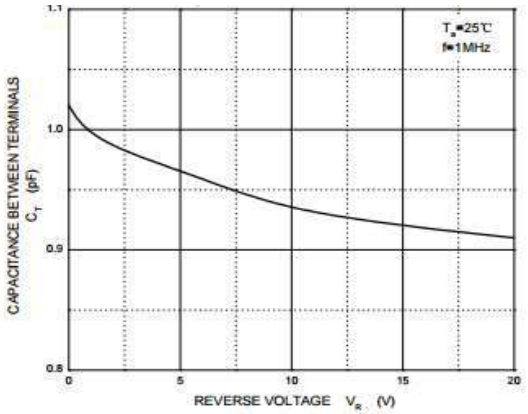
Forward current(IF) vs Forward voltage(VF)



Reverse current(IR) vs Reverse voltage(VR)



Power Derating Curve

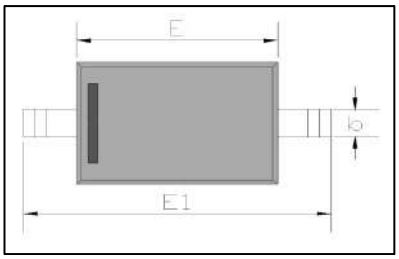


Capacitance vs Reverse voltage(VR)

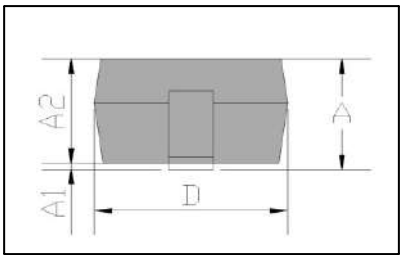
Package Dimensions

Package outline : SOD-323

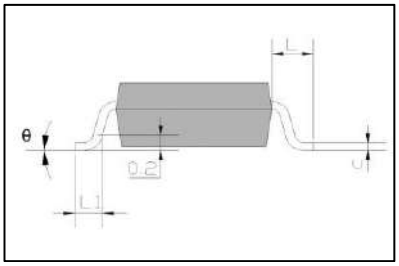
Top View



Side View



Front View

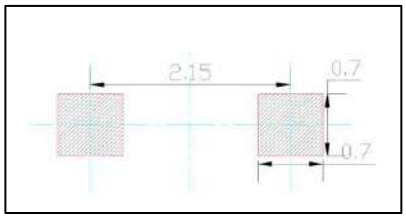


Symbol	Dimensions in mm	
	Min.	Max.
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 REF.	
L1	0.250	0.400
θ	0°	8°

Notice:

2.Lead plating: Pb free solder
3.Lead thickness includes solder plating
4.Other Tolerance: ±0.05
5.Unit: mm

Soldering Pattern



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification
S-1SS355-V	SOD-323	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive