

## Features

- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance and Low Forward Voltage Drop
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient(Note 2)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AWSL	CA	40V	28V	40V
SD103BWSL	CB	30V	21V	30V
SD103CWSL	CC	20V	14V	20V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

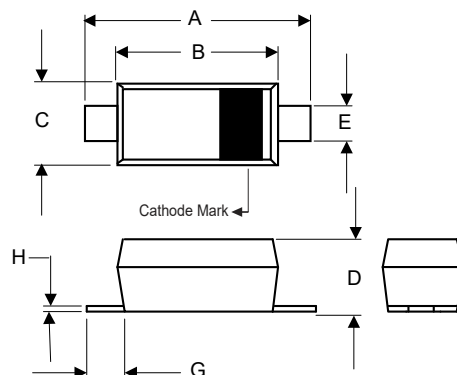
Forward Continuous Current(Note2)	$I_{F(AV)}$	350mA	
Non-Peak Forward Surge Current	$I_{FSM}$	2A	t= 8.3 ms Single Half Sine-Wave
Maximum Power Dissipation	$P_d$	200mW	Note 3
Maximum Instantaneous Forward Voltage	$V_F$	0.37V 0.60V	$I_{FM}=20mA$ $I_{FM}=200mA$
Maximum DC Reverse Current	$I_R$	5.0µA	$V_R = 30V$ $V_R = 20V$ $V_R = 10V$
Typical Reverse Recovery Time	$T_{rr}$	10ns	$I_F = I_R = 200mA$ $I_{rr} = 0.1 \times I_R$ $R_L = 100\Omega$
Maximum Junction Capacitance	$C_J$	50pF	Measured at 1.0MHz, $V_R = 0.0V$

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. Part mounted on FR-4 board with recommended pad layout.
3. Valid provided that electrodes are kept at ambient temperature.

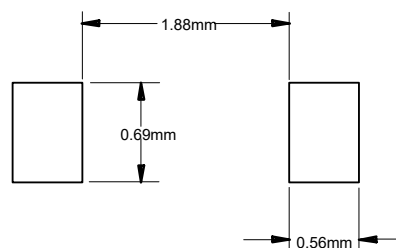
# 200mW Small Signal Schottky Diode 20 to 40 Volts

## SOD-323FL



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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		TYP.
H	0.002	0.008	0.05	0.21	

## Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

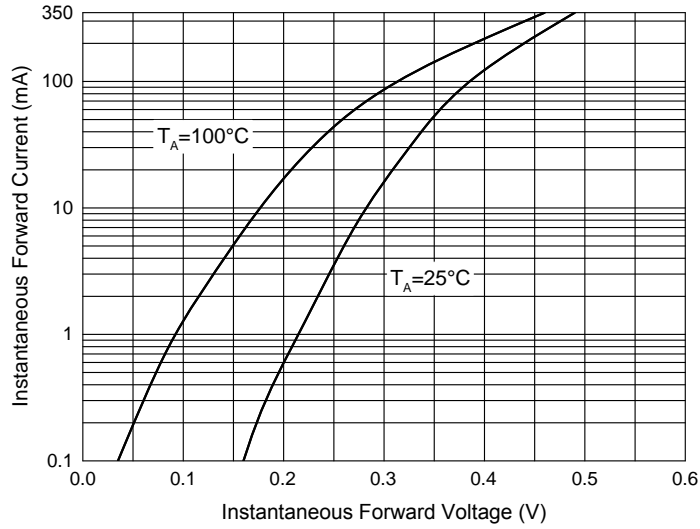


Fig. 2 - Typical Reverse Leakage Characteristics

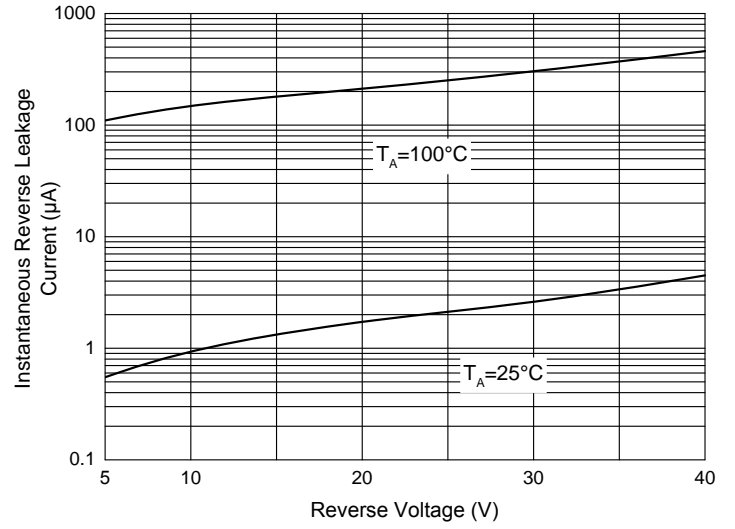


Fig. 3 - Power Derating Curve

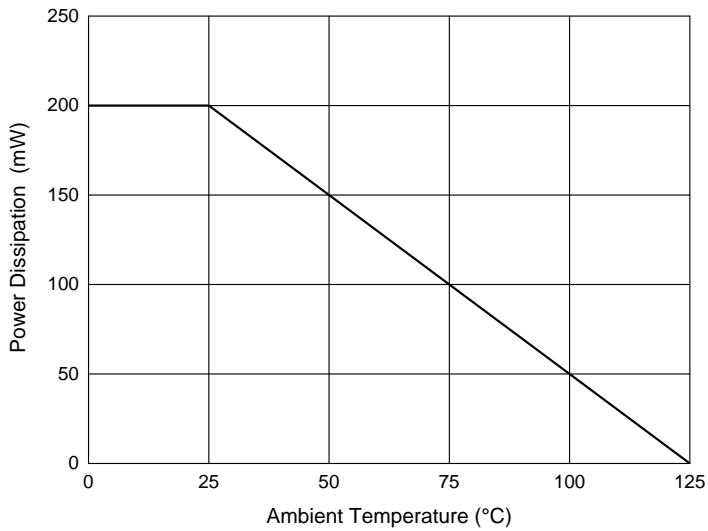
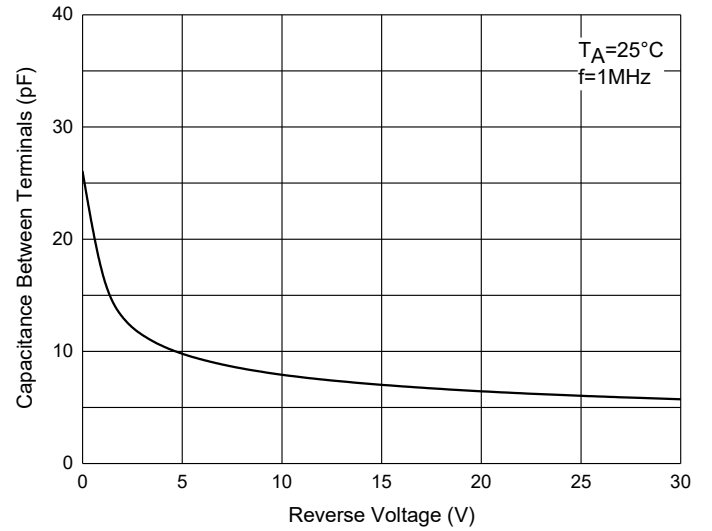


Fig. 4 - Capacitance Characteristics



## Ordering Information

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

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