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)

200mW Small Signal Schottky Diode 20 to 40 Volts

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)

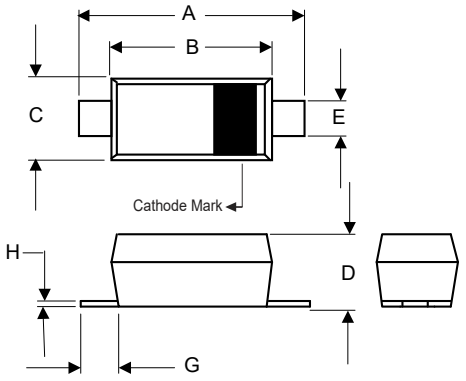
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AWSL	CA	40V	28V	40V
SD103BWSL	CB	30V	21V	30V
SD103CWSL	CC	20V	14V	20V

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 SD103AWSL SD103BWSL SD103CWSL	I_R	5.0μA	V_R = 30V V_R = 20V V_R = 10V
Typical Reverse Recovery Time	Trr	10ns	I_F =I_R =200mA I_{rr}=0.1×I_R R_L=100Ω
Maximum Junction Capacitance	C_J	50pF	Measured at 1.0MHz, V_R=0.0V

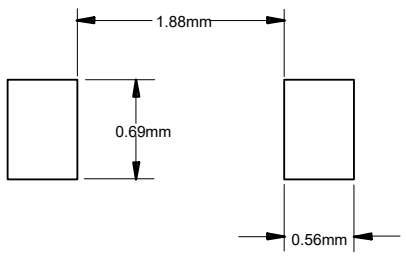
Note:
1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2.Part mounted on FR-4 board with recommended pad layout.
3.Valid provided that electrodes are kept at ambient temperature.

SOD-323FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

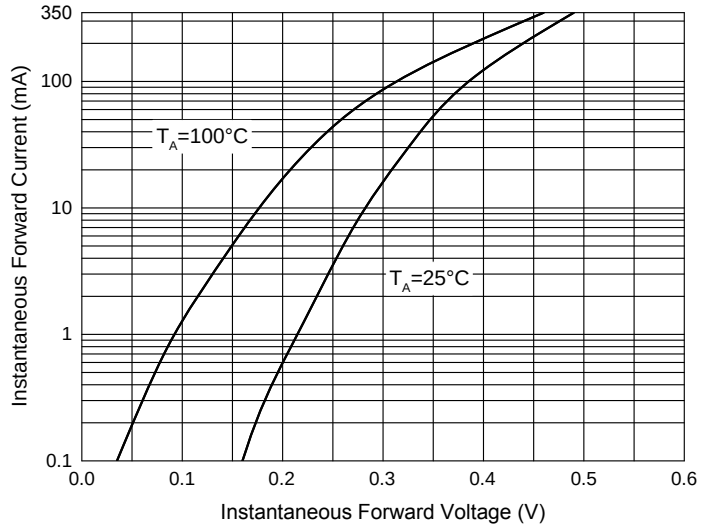


Fig. 2 - Typical Reverse Leakage Characteristics

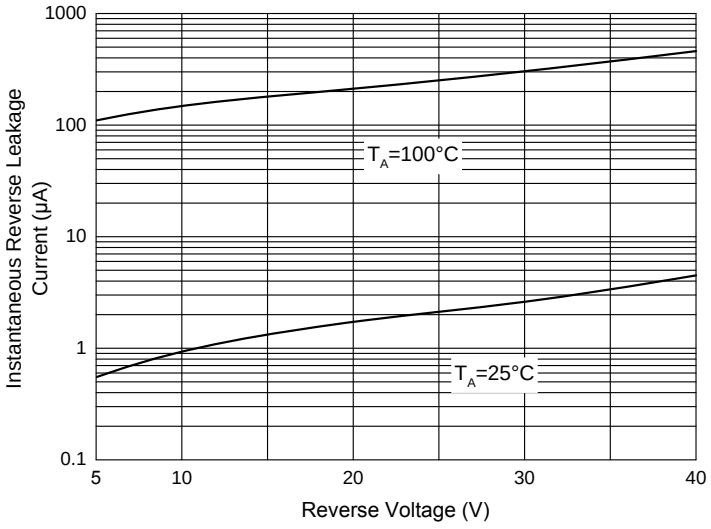


Fig. 3 - Power Derating Curve

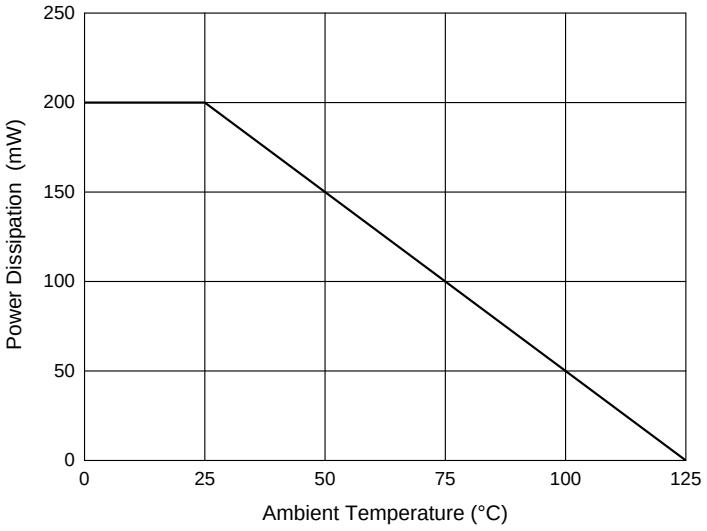
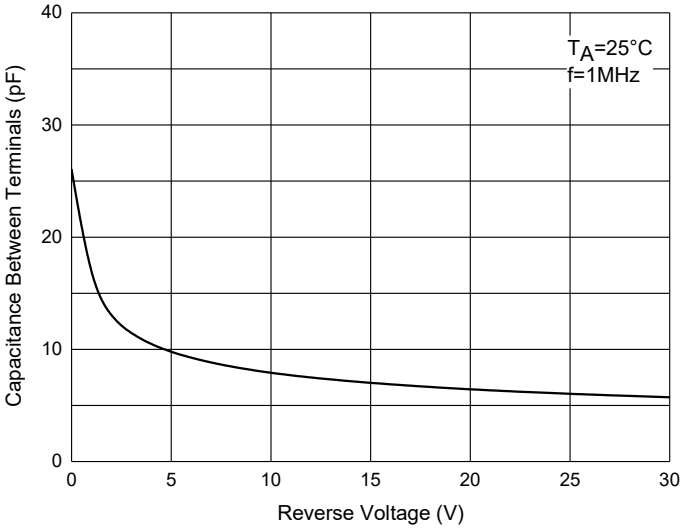


Fig. 4 - Capacitance Characteristics



Ordering Information

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

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