

## 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 Available Upon Request By Adding Suffix "-HF"
- 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

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AWS	S4	40V	28V	40V
SD103BWS	S5	30V	21V	30V
SD103CWS	S6	20V	14V	20V

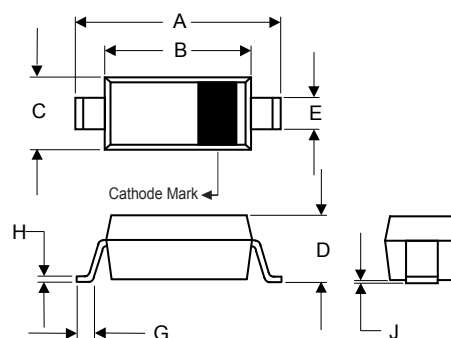
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Continuous Current(Note1)	$I_{F(AV)}$	350mA	
Peak Forward Surge Current	$I_{FSM}$	1500mA	$t \leq 1.0s$
Maximum Power Dissipation	$P_d$	200mW	Note 1
Maximum Instantaneous Forward Voltage	$V_F$	0.37V 0.60V	$I_{FM}=20mA$ $I_{FM}=200mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	SD103AWS SD103BWS SD103CWS $I_R$	5.0μA	$V_R = 30V$ $V_R = 20V$ $V_R = 10V$
Typical Reverse Recovery Time	$T_{rr}$	10ns	$I_F = I_R = 200mA$ $I_{rr} = 0.1 \times I_R$ $R_L = 100\Omega$
Typical Junction Capacitance	$C_J$	50pF	Measured at 1.0MHz, $V_R = 0.0V$

Note: 1.Valid provided that electrodes are kept at ambient temperature

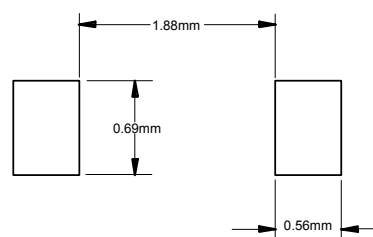
# 200mW Small Signal Schottky Diode 20 to 40 Volts

## SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	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	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

### Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

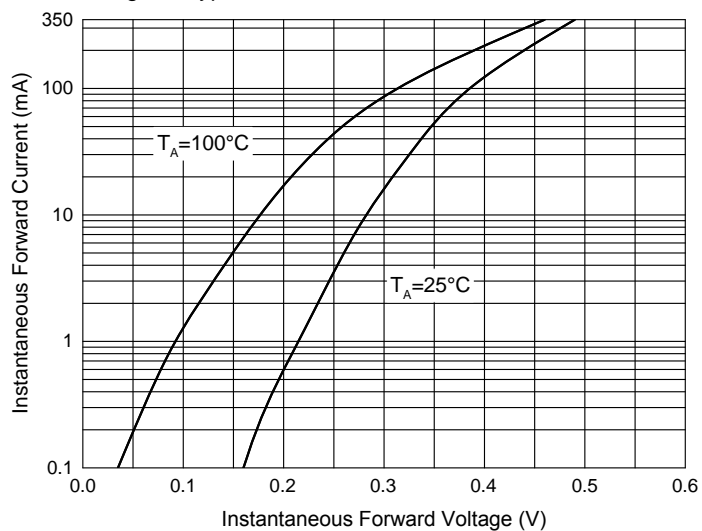


Fig. 2 - Typical Reverse Leakage Characteristics

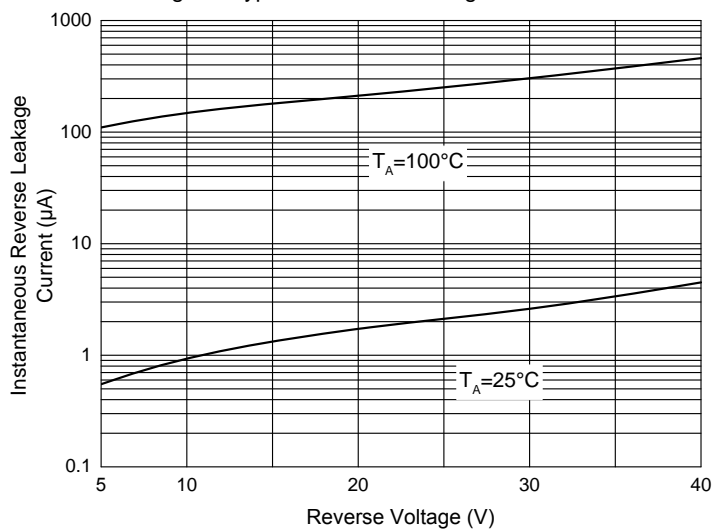
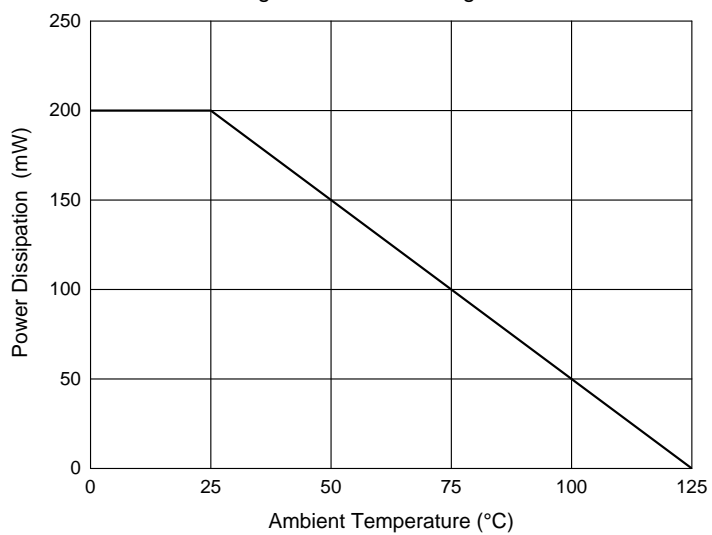


Fig. 3 - Power Derating Curve



## Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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