



Micro Commercial Components



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SD103AX

200mW Small Signal Schottky Diode 40 Volts

Features

- Guard Ring Construction for Transient Protection
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking : S4
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

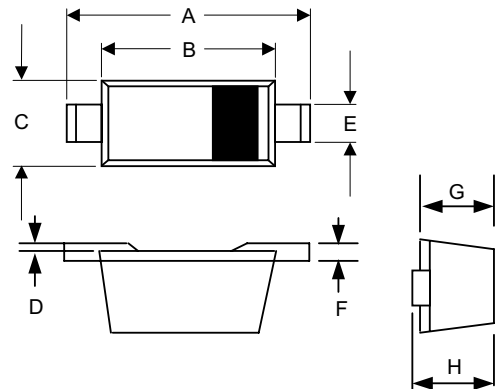
- Operating Temperature: -65°C to $+125^{\circ}\text{C}$
- Storage Temperature: -65°C to $+125^{\circ}\text{C}$

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AX	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	350mA	
Peak Forward Surge Current	I_{FSM}	1.0A	$t \leq 1.0\text{s}$
Maximum Power Dissipation	P_D	200mW	
Maximum Instantaneous Forward Voltage	V_F	0.37V 0.60V	$I_{FM} = 20\text{mA}$ $I_{FM} = 200\text{mA}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA	$V_R = 30\text{V}$
Typical Junction Capacitance	C_j	50pF	Measured at 1.0MHz, $V_R=0\text{V}$
Typical Reverse Recovery Time	t_{rr}	10ns	$I_F = I_R = 50\text{mA}$ $R_L = 100\Omega$

SOD-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.003	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

TYPICAL CHARACTERISTICS

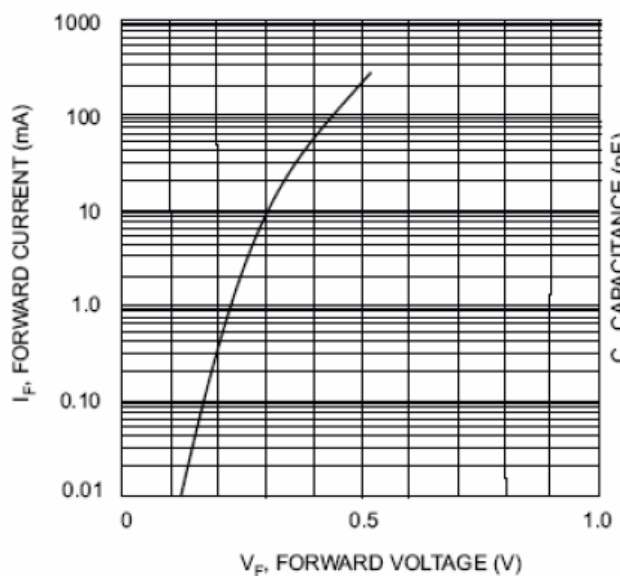


Fig. 1 Typical Forward Characteristics

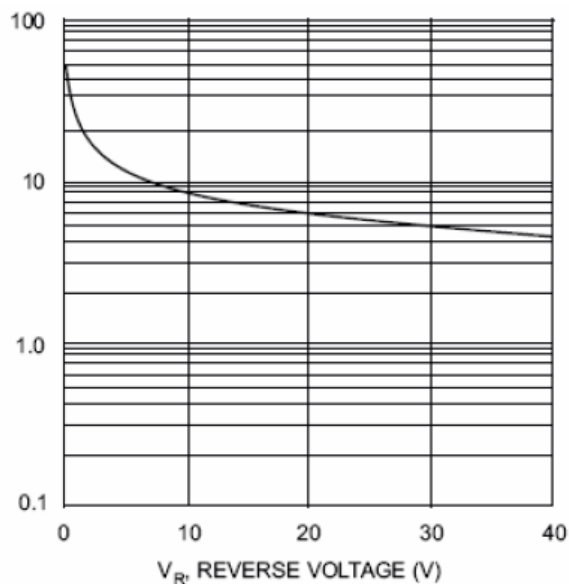


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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