SD103AWS THRU SD103CWS

400mW Small Signal Schottky Diode 20 to 40 Volts

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Guard Ring Construction for Transient Protection
- Negligible Reverse recovery time
- Low Reverse Capacitance and Low Forward Voltage Drop
- Marking : SD103AWS: S4 ,SD103BWS: S5 , SD103CWS: S6
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

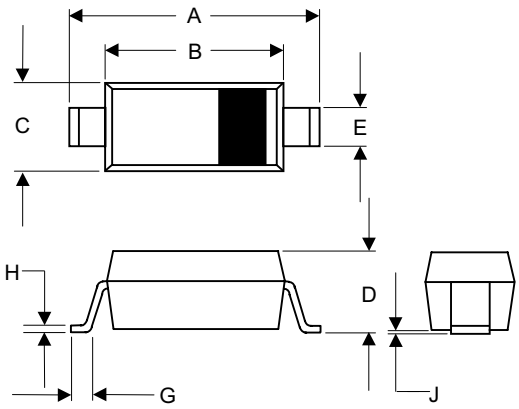
- Operating Temperature: -65℃ to +125℃
- Storage Temperature: -65℃ to +125℃
- Maximum Thermal Resistance; 300℃/W Junction to Ambient

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

Electrical Characteristics @ 25℃ Unless Otherwise Specified

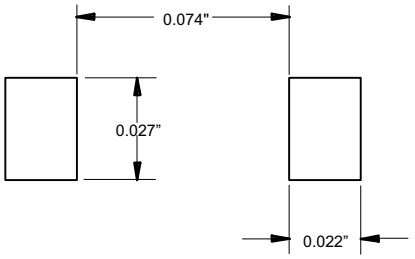
Average Forward Current	$I_{F(AV)}$	350mA	Note 1
Peak Forward Surge Current	I_{FSM}	1.5A	t≦1.0s
Maximum Power Dissipation	P_D	200mW	Note 1
Maximum Instantaneous Forward Voltage	V_F	0.37V 0.60V	I_{FM} = 20mA I_{FM} = 200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA	V_R = 30V (AWS) V_R = 20V (BWS) V_R = 10V (CWS)
Typical Junction Capacitance	C_j	50pF	Measured at 1.0MHz, V_R=0V
Typical Reverse Recovery Time	t_{rr}	10ns	I_F = I_R =200mA I_{rr}=0.1×I_R R_L=100Ω

SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



SD103AWS thru SD103CWS

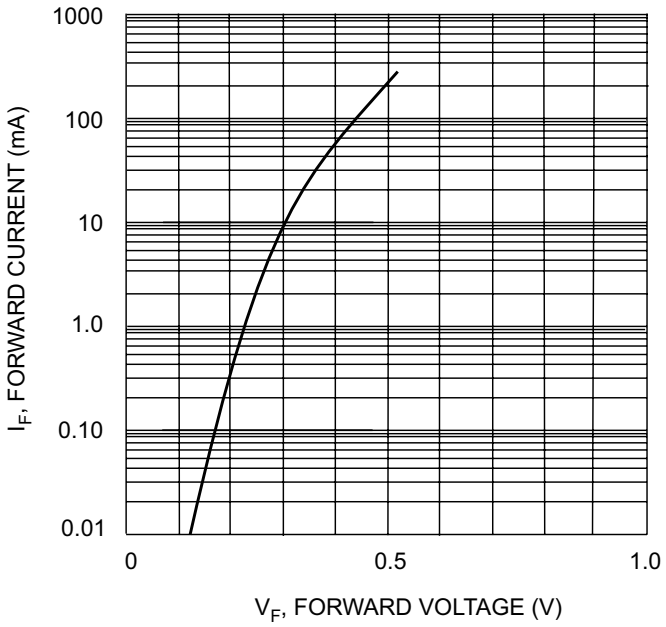


Fig. 1 Typical Forward Characteristics

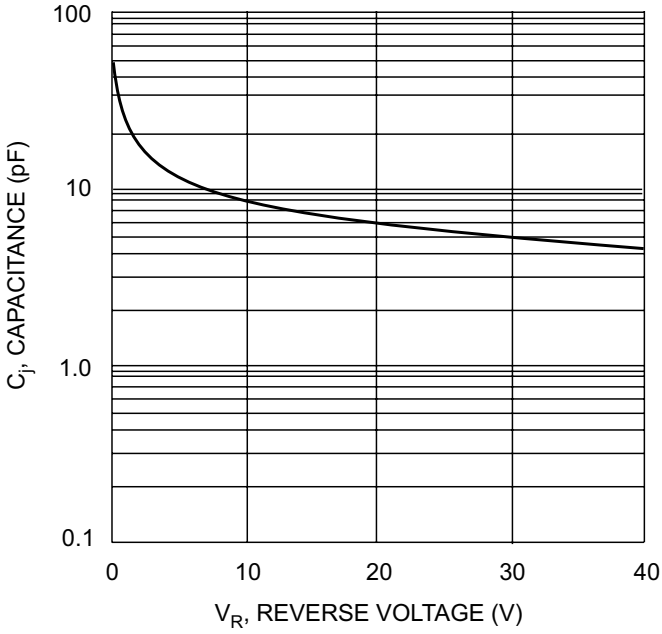


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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