

Micro Commercial Components



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SD103AWS THRU SD103CWS

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

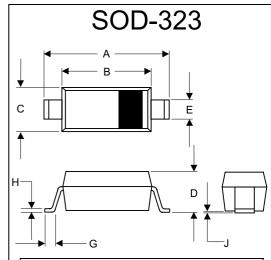
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD103AWS	40V	28V	40V
SD103BWS	30V	21V	30V
SD103CWS	20V	14V	20V

Electrical Characteristics @ 25° C Unless Otherwise Specified

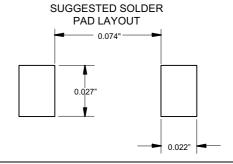
Average Forward Current	I _{F(AV)}	350mA	Note 1
Peak Forward Surge Current	I _{FSM}	1.5A	t≦1.0s
Maximum Power Dissipation	P_{D}	200mW	Note 1
Maximum Instantaneous Forward Voltage	V _F	0.37V 0.60V	I _{FM} = 20mA I _{FM} = 200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0µA	V _R = 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	$I_F = I_R = 200 \text{mA}$ $I_{rr} = 0.1 \times I_R R_L = 100 \Omega$

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

400mW Small Signal Schottky Diode 20 to 40 Volts

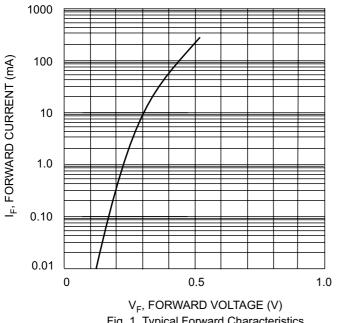


DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.107	2.30	2.70		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.045	0.80	1.15		
Е	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15	·	



SD103AWS thru SD103CWS





100 Cj, CAPACITANCE (pF) 10 1.0 0.1 20 30 40 V_R, REVERSE VOLTAGE (V)

Fig. 1 Typical Forward Characteristics

Fig. 2 Typ. Junction Capacitance vs Reverse Voltage



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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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