

Technical Data Data Sheet N0992, Rev. - **Green Products**

SD103AW-SD103CW SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features:

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material —UL Recognition Flammability Classification 94V-O
- Green Products in Compliance with the ROHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- · Additional testing can be offered upon request

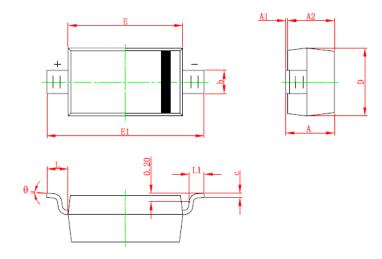
Mechanical Data:

• Case: SOD-123, Molded Plastic

• Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode BandWeight: 0.01 grams(approx)

Mechanical Dimensions: In mm / Inches



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

SOD-123(CJ)

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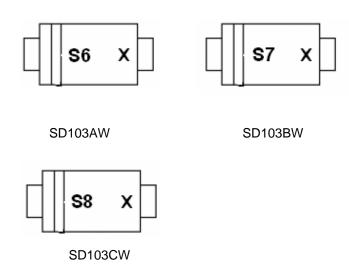
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Marking Diagram:

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Where X is Date Code

S6/S7/S8 = Part Name

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
SD103AW-SD103CW	SOD-123(Pb-Free)	3000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic		Symbol	SD103AW-G	SD103BW-G	SD103CW-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	40	30	20	٧
RMS Reverse Voltage		VR(RMS)	28	21	14	٧
Average Rectified Output Current	@T _L = 75°C	lo	0.35		Α	
Non-Repetitive Peak Forward Surge Current @ t < 1.0s		IFSM	2.0			Α
Power Dissipation		Pd	400			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		R_{θ} JA	300			°C/W
Operating and Storage Temperature Range		Тј, Тѕтс	-65 to +125			°C

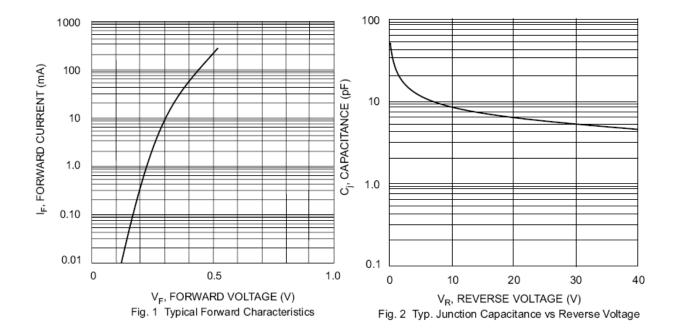
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	All Types	Unit	Test Condition
Forward Voltage Drop	V _{FM}	0.37 0.60	٧	@ IF = 20mA @ IF = 200mA
Peak Reverse Leakage Current	lгм	5.0	μΑ	@ Rated DC Blocking Voltage
Typical Junction Capacitance	Cj	50	pF	V _R = 0V, f = 1.0MHz

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

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