

SD103AWS THRU SD103CWS

SMALL SIGNAL SCHOTTKY DIODES

SOD-323

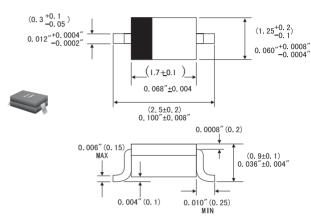
FEATURES

- For general purpose applications
- The SD103AWS to SD103CWS series is a Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications. Other applications are click suppressions, efficient full wave bridges in telephone subsets, and blocking diodes in rechargeable low voltage battery systems.
- . These diodes are also available in the Mini-MELF case with the type designation LL103A toLL103C ,in the DO-35 case with type designation SD103A to SD103C and in the SOD-123 case with type designation SD103AW to SW103CW

MECHANICAL DATA

- · Case: SOD-323 plastic case
- . Weight: Approx. 0.004 gram

ABSOLUTE RATINGS (LIMITING VALUES)



Dimensions in inches and (millimeters)

		Symbols	Value	Units
Peak Reverse Voltage	SD103AWS SD103BWS SD103CWS	Vrrm Vrrm Vrrm	40 30 20	V V V
Power Dissipation (infinite Heat Sink)		Ptot	400 ¹⁾	mW
Maximum Single cycle surge 60Hz sine wave		IFSM	15	A
Junction temperature		TJ	125	ĉ
Storage Temperature Range		Tstg	-55 to+150	°

ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

	Symbols	Min.	Тур.	Max.	Unis	
Leakage current at V _R =30V SD103AWS V _R =20V SD103BWS V _R =10V SD103CWS	IR IR IR			5 5 5	μΑ μΑ μΑ	
Forward voltage drop at lF=20mA lF=200mA	VF VF			0.37 0.6	V V	
Junction Capacitance at $V_{\text{R}}{=}0V$,f=1MHz	CJ		50		pF	
Reverse Recovery time at $l_{\rm F}{=}l_{\rm R}{=}50\text{mA},$ recover to 200mA recover to 0.1 $I_{\rm R}$	trr		10		ns	
Thermal resistance, junction to Ambient	Reja			650 ¹⁾	°C/W	
1) Valid provided that electrodes are kept at ambient temperature(SOD-323)						