



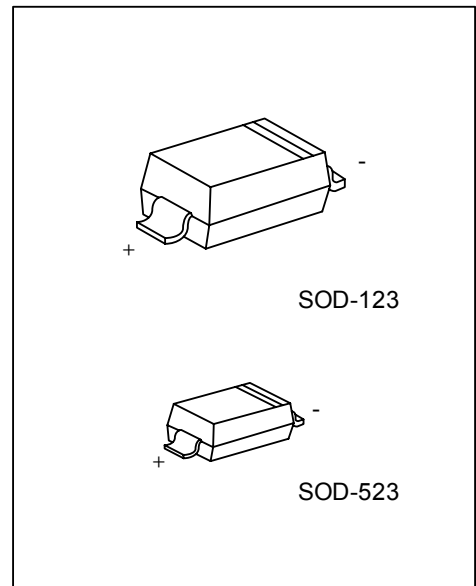
SD103AW

DIODE

SCHOTTKY BARRIER SWITCHING DIODE

■ FEATURES

- * Low Forward Voltage Drop
- * Fast Switching
- * Negligible Reverse Recovery Time
- * Low Reverse Capacitance
- * Designed for Surface Mount Application
- * PN Junction Guard Ring for Transient and ESD Protection



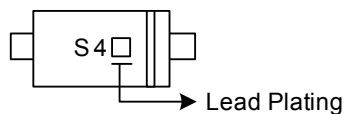
*Pb-free plating product number: SD103AWL

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
SD103AW-CA2-R	SD103AWL-CA2-R	SOD-123	Tape Reel
SD103AW-CC2-R	SD103AWL-CC2-R	SOD-523	Tape Reel

SD103AWL-CA2-R (1)Packing Type (2)Package Type (3)Lead Plating	(1) R: Tape Reel (2) CA2: SOD-123, CC2: SOD-523 (3) L: Lead Free Plating Blank: Pb/Sn
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■ MARKING



■ ABSOLUTE MAXIMUM RATINGS (Single Diode @T_A=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum DC Blocking Voltage	V _R	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
Maximum RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current	I _{FM}	350	mA
Non-Repetitive Peak Forward Current at t _p ≤ 1.0s	I _{FSM}	1.5	A
Power Dissipation	P _D	400	mW
Storage Temperature	T _{STG}	-65~+125	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

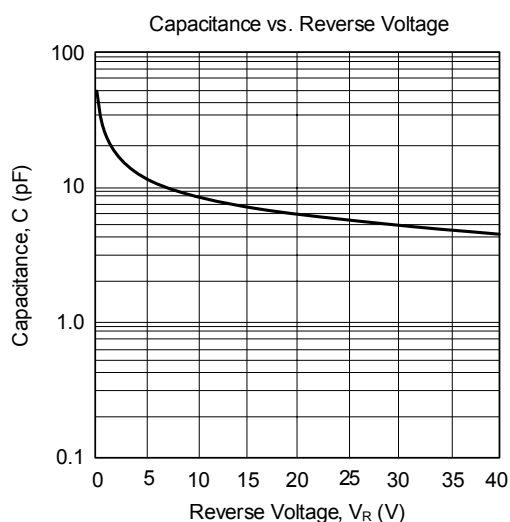
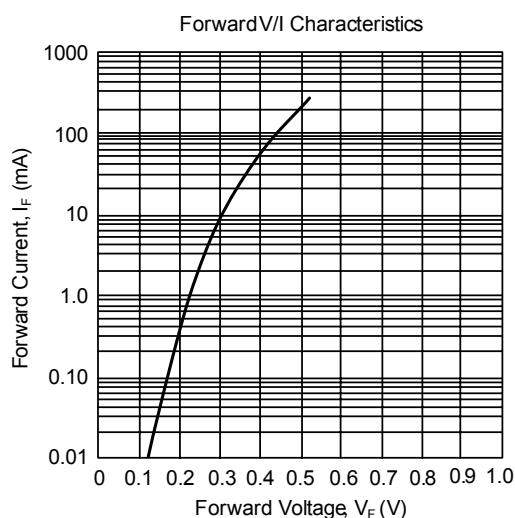
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction to Ambient	θ _{JA}	300	/W

■ ELECTRICAL CHARACTERISTICS (T_A=25)

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage Drop	V _F	I _F =20mA			0.37	V
		I _F =200mA			0.60	V
Reverse Breakdown Voltage	BV _R	I _R =10μA	40			V
Peak Reverse Leakage Current	I _{RM}	V _R =30V			5.0	μA
Typical Reverse Recovery Time	t _{RR}	I _F =I _R = 50~200mA, R _L =100Ω recover to 0.1x I _R ,		10		ns
Typical Junction Capacitance	C _T	V _R =0V, f=1.0MHz		50		pF

TYPICAL CHARACTERISTICS



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