

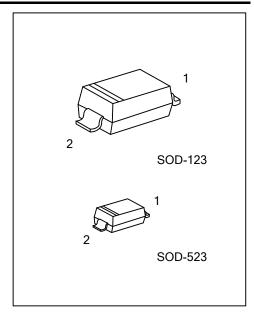
SD103AW DIODE

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

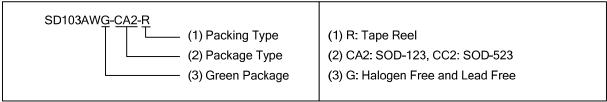
SYMBOL



ORDERING INFORMATION

Order Number	Package	Pin Assignment		Dooking	
		1	2	Packing	
SD103AWG-CA2-R	SOD-123	Α	K	Tape Reel	
SD103AWG-CC2-R	SOD-523	Α	K	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (Single Diode @ T_A=25°C, unless otherwise specified)

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	Α
Power Dissipation	P_{D}	400	mW
Storage Temperature	T _{STG}	-65~+125	°C

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

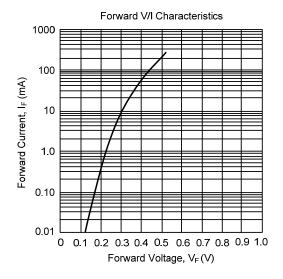
PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction to Ambient	θ_{JA}	300	°C/W

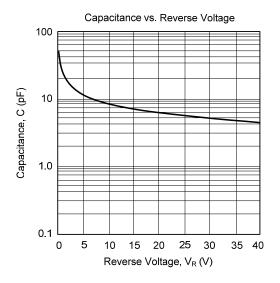
■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	\/	I _F =20mA			0.37	V
	V_{F}	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	μΑ
Typical Reverse Recovery Time	t _{RR}	$I_F=I_R=50\sim200$ mA, $R_L=100\Omega$ recover to 0.1x I_R ,		10		ns
Typical Junction Capacitance	C _T	V _R =0V, f=1.0MHz		50		pF

SD103AW DIODE

■ TYPICAL CHARACTERISTICS





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