



# SD103AWS

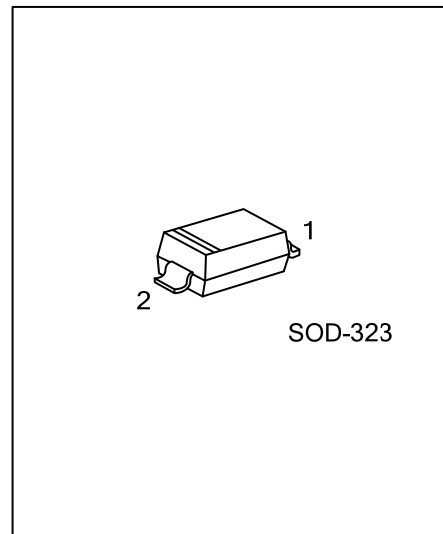
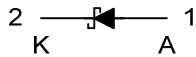
DIODE

## 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		Packing
		1	2	
SD103AWSG-CB2-R	SOD-323	A	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SD103AWSG-CB2-R</p> <ul style="list-style-type: none"> <li>(1) Packing Type</li> <li>(2) Package Type</li> <li>(3) Green Package</li> </ul>	<ul style="list-style-type: none"> <li>(1) R: Tape Reel</li> <li>(2) CB2: SOD-323</li> <li>(3) G: Halogen Free and Lead Free</li> </ul>
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### MARKING



■ ABSOLUTE MAXIMUM RATINGS (Single Diode @ $T_A=25^{\circ}\text{C}$ , 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 $t_p \leq 1.0\text{s}$	$I_{FSM}$	1.5	A
Power Dissipation	$P_D$	400	mW
Storage Temperature	$T_{STG}$	-65~+125	$^{\circ}\text{C}$

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.

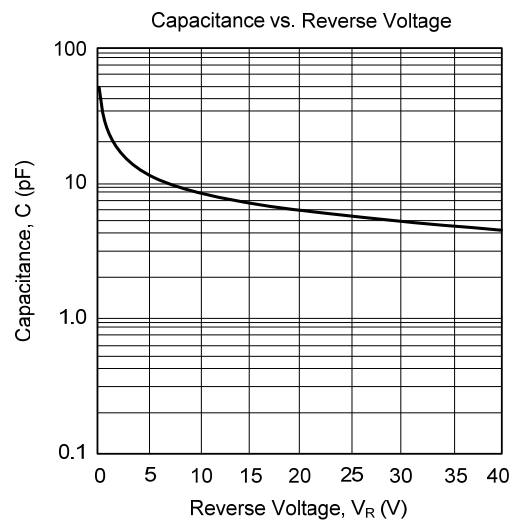
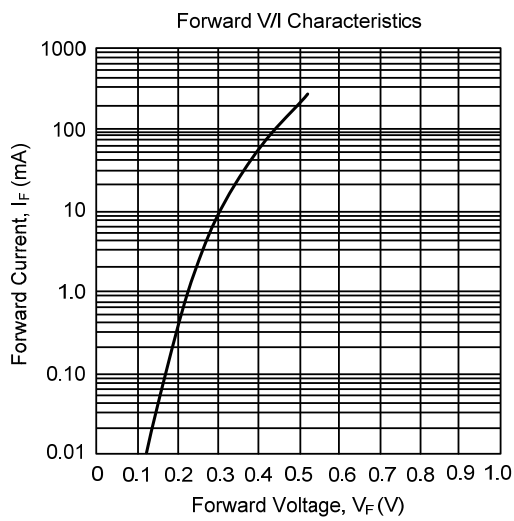
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction to Ambient	$\theta_{JA}$	300	$^{\circ}\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ , unless otherwise specified)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	$V_F$	$I_F=20\text{mA}$			0.37	V
		$I_F=200\text{mA}$			0.60	V
Reverse Breakdown Voltage	$BV_R$	$I_R=10\mu\text{A}$	40			V
Peak Reverse Leakage Current	$I_{RM}$	$V_R=30\text{V}$			5.0	$\mu\text{A}$
Typical Reverse Recovery Time	$t_{RR}$	$I_F=I_R=50\sim 200\text{mA}$ , $R_L=100\Omega$ recover to $0.1 \times I_R$		10		ns
Typical Junction Capacitance	$C_T$	$V_R=0\text{V}$ , $f=1.0\text{MHz}$		50		pF

## ■ TYPICAL CHARACTERISTICS



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