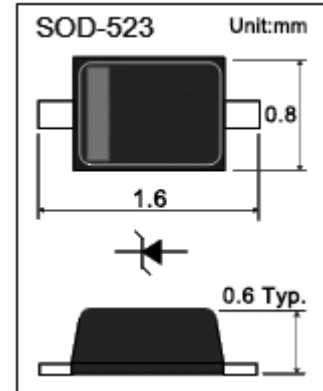


## Small Signal Schottky DIODE / DATA SHEET

### SD103AX

- ◇ Low Forward Voltage Drop
- ◇ **SOD523** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Surface Mount Package Ideally Suited for Automatic Insertion

Device Marking Code	
<b>SD103AX</b>	■ S4



### Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
$V_{RRM}$	Peak Repetive Reverse Voltage	40	V
$V_{RWM}$	Working Peak Reverse Voltage	40	V
$V_R$	DC Blocking Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
$I_{FM}$	Forward Continuous Current	350	mA
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current ( @t=8..3ms )	2.0	A
$P_D$	Power Dissipation	200	mW
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W

### Electrical Characteristics (Ta = 25 °C)

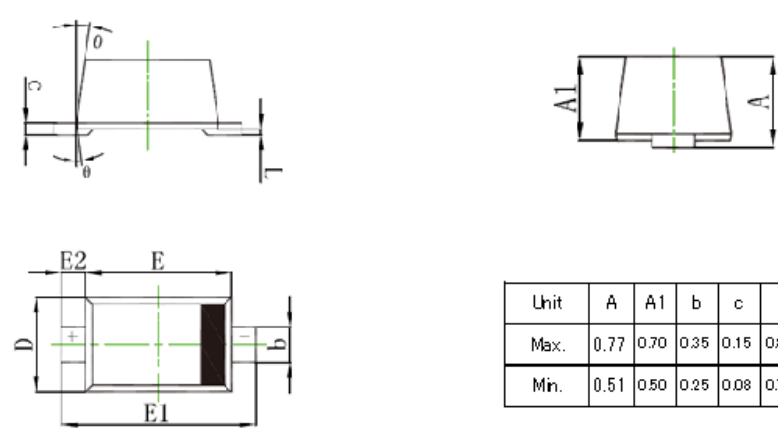
Symbol	Parameter	Conditions	Min	Max	Units
$V_{BR}$	Reverse Voltage	$I_F = 100\mu A$	40		V
$V_F$	Forward Voltage	$I_F = 20mA$		0.37	V
		$I_F = 200mA$		0.60	V
$I_R$	Reverse current	$V_R = 30V$		5	$\mu A$
$C_T$	Capacitance	$V_R = 0V, f = 1MHz$		50	pF
$t_{rr}$	Reverse Recovery Time	$I_F = I_R = 50mA, R_L = 100\Omega$		4	ns

**Ordering Information**

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
SD103AX	SOD523	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	

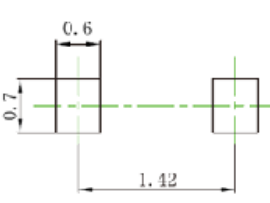
**Package Dimensions**

Package outline : SOD-523



Unit	A	A1	b	c	D	E	E1	E2	L	$\theta$
Max.	0.77	0.70	0.35	0.15	0.85	1.30	1.70	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50	REF.	0.01	REF.

SOD523 Package Outline



End Pattern Recommendation

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance:  $\pm 0.05$
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm

**NOTICE**

AM'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS COMPONENTS IN ANY LIFE SUPPORT DEVICES OR SYSTEMS.

AM reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. AM does not assume any liability arising out of the application or use of any product described herein.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [amsem](#) manufacturer:*

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#)  
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRA140TRPBF](#)  
[MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#)  
[NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#)  
[ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#) [PDS1040Q-13](#) [B160BQ-13-F](#)  
[SDM05U20CSP-7](#) [BAS 70-07 E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#) [HSM190Je3/TR13](#) [B330AF-13](#)  
[ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#)