

SD103AX

Schottky Diode

FEATURE

- 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

MARKING:



 S4

SOD-523



Schematic diagram



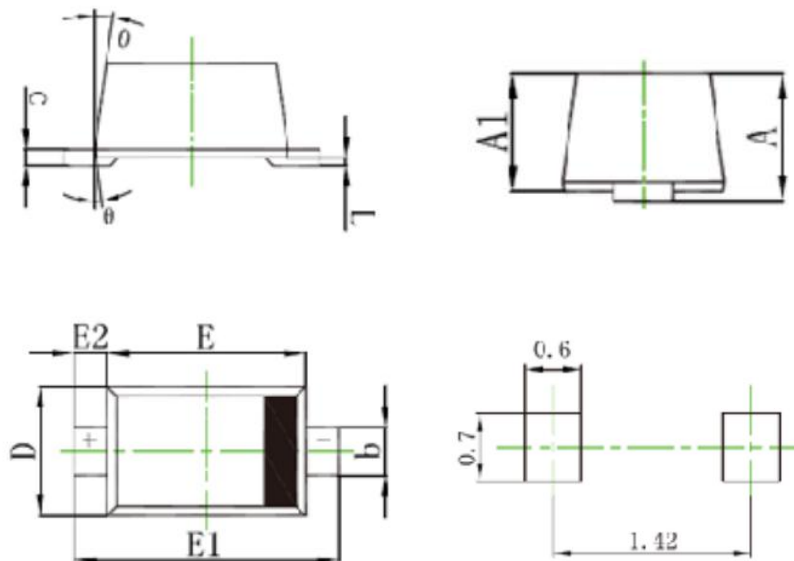
ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking Voltage	V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current	I _{FM}	350	mA
Non-Repetitive Peak Forward Surge Current (@t=8..3ms)	I _{FSM}	2.0	A
Power Dissipation	P _D	200	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 to +150	°C
Thermal Resistance From Junction To Ambient	R _{θJA}	625	°C/W

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Voltage	V _{BR}	I _F = 100uA	40			V
Forward Voltage	V _F	I _F = 20mA			0.37	V
		I _F = 200mA			0.60	V
Reverse current	I _R	V _R = 30V			5	μA
Capacitance	C _T	V _R = 0V, f = 1MHz			50	pF
Reverse Recovery Time	Trr	I _F = I _R = 50mA, R _L = 100Ω			4	ns

SOD-523 Package Outline Dimensions



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.51	-	0.77
A1	0.50	-	0.70
b	0.25	-	0.35
c	0.08	-	0.15
D	0.75	-	0.85
E	1.10	-	1.30
E1	1.50	-	1.70
E2	0.20REF.		
L	0.01	-	0.07
θ	7° REF.		