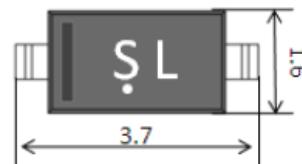


- ◇ Low Forward Voltage Schottky Rectifier
- ◇ **SOD123 Thin SMD package**
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Moisture Level Sensitivity 1
- ◇ Cathode Band / Device marking



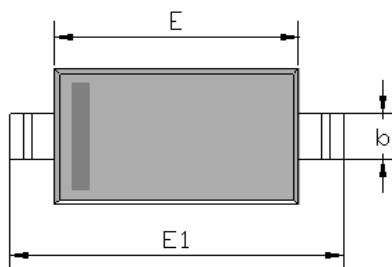
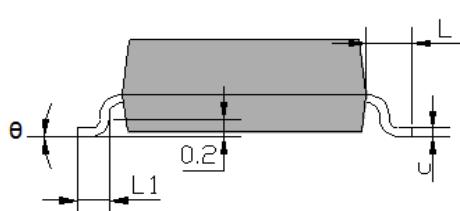
Maximum Ratings ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
$V_{R(\text{RMS})}$	RMS Reverse Voltage	28	V
I_o	Average Rectified Output Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Surge Current	9	A
I_{FRM}	Repetitive Peak Forward Current	1.5	A
P_D	Power Dissipation	500	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-65 to +150	°C

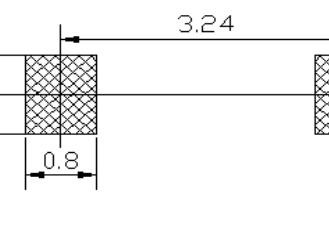
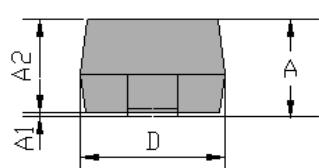
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Test Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F=1\text{A}$		0.6	V
		$I_F=3\text{A}$		0.9	V
V_{BR}	Reverse breakdown voltage	$I_R=1\text{mA}$	40		V
I_R	Reverse voltage leakage current	$V_R=20\text{V}$		1	mA
C_D	Diode capacitance	$VR=4\text{V}, f=1\text{MHz}$		120	pF

Package Dimensions



SOD123 Package Outline



Land Pattern Recommendation

Symbol	Dimensions in mm	
	Min.	Max.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500 REF.	
L1	0.250	0.450
θ	0°	8°