



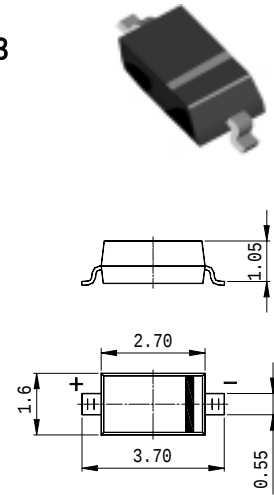
SOD-123 Plastic-Encapsulate Diode

1N5711W**SCHOTTKY DIODE****Features**

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance
- Surface Mount Package Ideally Suited for Automatic Insertion

Marking:

1N5711W:SA

SOD-123**Maximum Ratings** @ $T_A = 25^\circ\text{C}$ unless otherwise specified

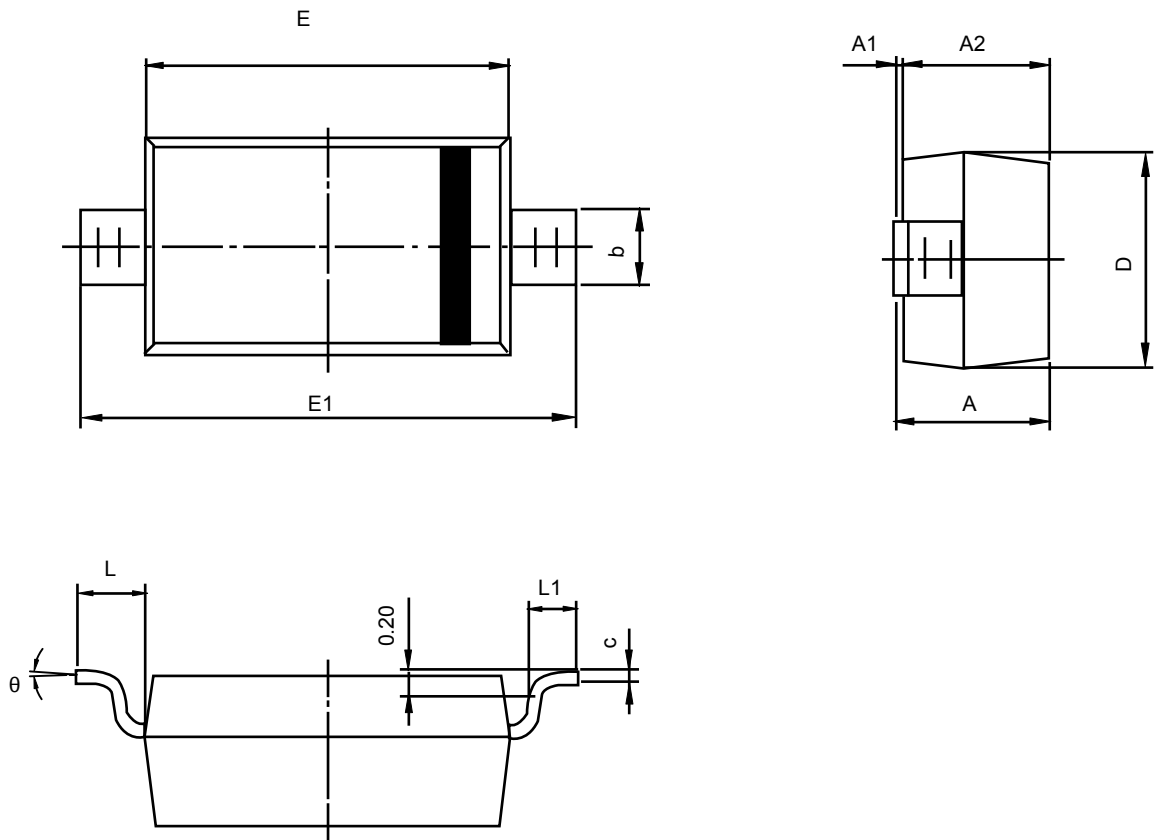
Characteristic	Symbol	1N5711W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	70	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	V
Maximum Forward Current	I_{FM}	15	mA
Power Dissipation (Note 1)	P_d	250	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	600	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	70	—	—	V	$I_R = 10\mu\text{A}$
Reverse Leakage Current	I_R	—	—	200	nA	$V_R = 50\text{V}$
Forward Voltage Drop	V_{FM}	—	—	0.41 1.00	V	$I_F = 1.0\text{mA}$ $I_F = 15\text{mA}$
Junction Capacitance	C_j	—	—	2.0	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	—	—	1.0	ns	$I_F = I_R = 5.0\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$

Note: 1. Valid provided that terminals from the case are maintained at ambient temperature.

SOD-123 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500REF		0.020REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°