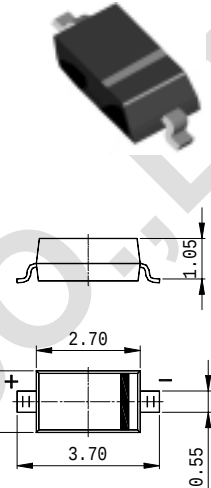


Features

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

SOD-123



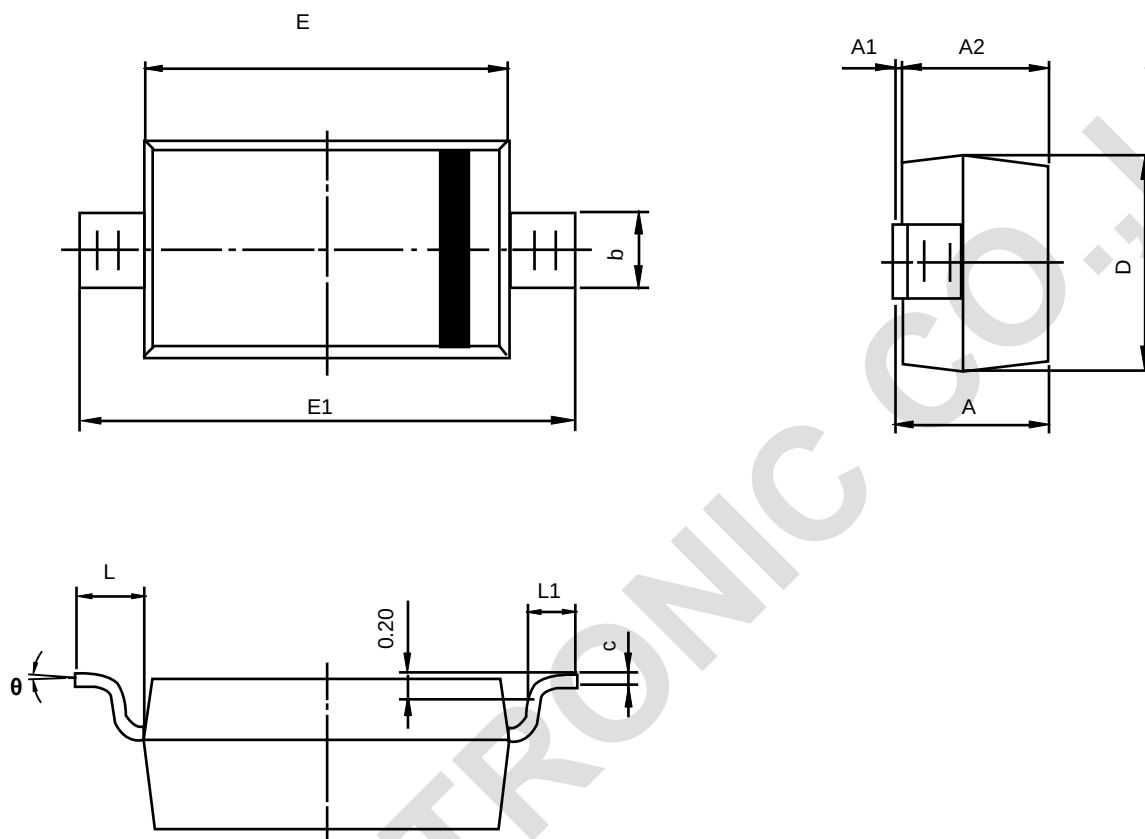
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1N6263W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Forward Continuous Current	I _F	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10ms	I _{FSM}	50 2.0	mA A
Power Dissipation (Note 1)	P _d	400	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	375	K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	60	—	—	V	I _R = 10μA
Reverse Leakage Current	I _{RM}	—	—	200	nA	V _R = 50V
Forward Voltage Drop	V _{FM}	—	—	0.41 1.0	V	I _F = 1.0mA I _F = 15mA
Junction Capacitance	C _j	—	2.0	—	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	1.0	—	ns	I _F = I _R = 5.0mA I _{rr} = 0.1 × I _R , R _L = 100Ω

Note: 1. Valid provided that terminals from the case are maintained at ambient temperature.
2. Test period <3000μs.



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°