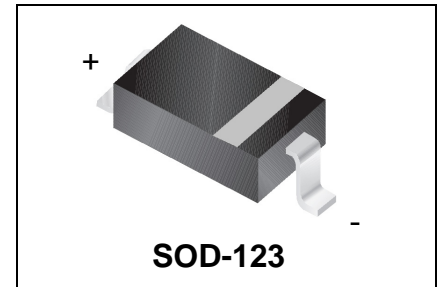


## Features

- Low Turn-on Voltage
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection



## Absolute Maximum Ratings

( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

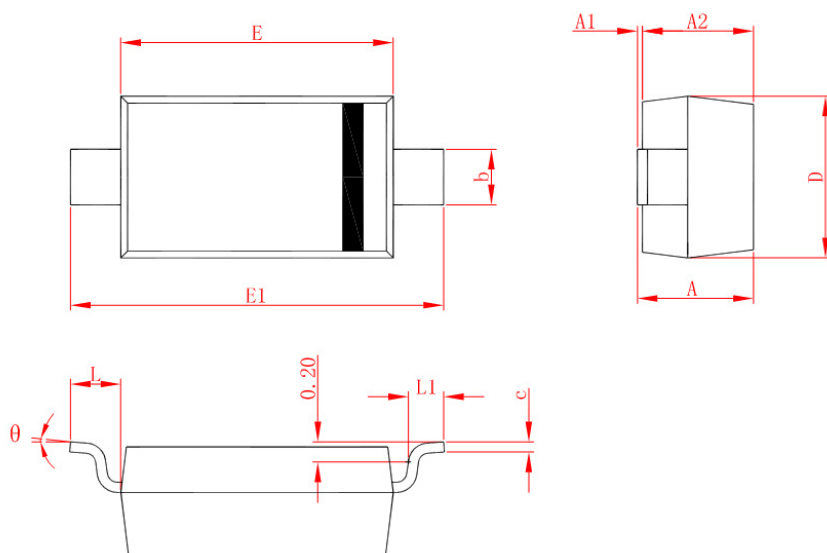
Parameter	Symbol	Value	Unit
DC blocking voltage	$V_R$	30	V
RMS reverse voltage	$V_{R(RMS)}$	21	
Average rectified output current	$I_o$	100	mA
Forward continuous current	$I_F$	200	mA
Repetitive peak forward current	$I_{FRM}$	300	mA
Forward surge current @ $t<1s$	$I_{FSM}$	600	mA
Power dissipation	$P_d$	500	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	200	$^{\circ}\text{C}/\text{W}$
Junction temperature	$T_J$	125	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

## Electrical Characteristics

( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30			V
Forward voltage	$V_{F1}$	$I_F=0.1\text{mA}$			240	mV
	$V_{F2}$	$I_F=1.0\text{mA}$			320	mV
	$V_{F3}$	$I_F=10\text{mA}$			400	mV
	$V_{F4}$	$I_F=30\text{mA}$			500	mV
	$V_{F5}$	$I_F=100\text{mA}$			1000	mV
Reverse current	$I_R$	$V_R=25\text{V}$			2.0	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F=10\text{mA}$ , $I_R=10\text{mA}$ to $1\text{mA}$ , $R_L=100\Omega$			5.0	ns
Capacitance between terminals	$C_T$	$V_R=1\text{V}$ , $f=1\text{MHz}$			10	pF

## Product 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	0.500 REF.		0.020 REF.	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

## Marking L9