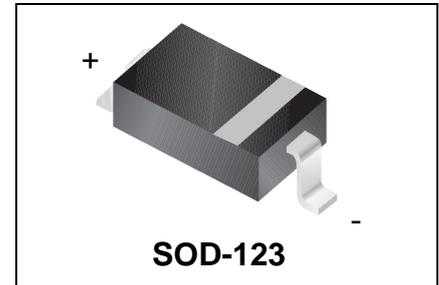


**Features**

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



**Absolute Maximum Ratings**

(T<sub>A</sub>=25°C unless otherwise specified)

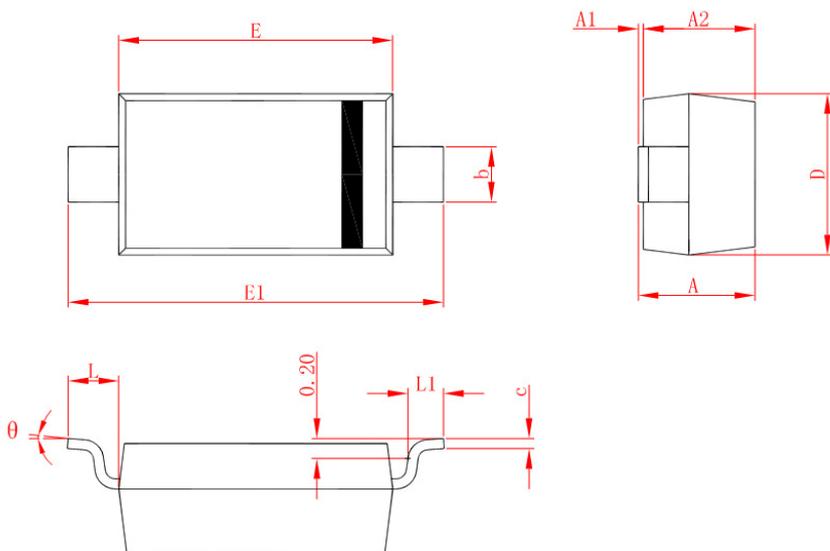
Parameter	Symbol	Value	Unit
DC blocking voltage	V <sub>R</sub>	30	V
RMS reverse voltage	V <sub>R(RMS)</sub>	21	
Average rectified output current	I <sub>o</sub>	100	mA
Forward continuous current	I <sub>F</sub>	200	mA
Repetitive peak forward current	I <sub>FRM</sub>	300	mA
Forward surge current @t<1s	I <sub>FSM</sub>	600	mA
Power dissipation	P <sub>d</sub>	500	mW
Thermal resistance junction to ambient	R <sub>θJA</sub>	200	°C/W
Junction temperature	T <sub>J</sub>	125	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C

**Electrical Characteristics**

(T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	30			V
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> =0.1mA			240	mV
	V <sub>F2</sub>	I <sub>F</sub> =1.0mA			320	mV
	V <sub>F3</sub>	I <sub>F</sub> =10mA			400	mV
	V <sub>F4</sub>	I <sub>F</sub> =30mA			500	mV
	V <sub>F5</sub>	I <sub>F</sub> =100mA			1000	mV
Reverse current	I <sub>R</sub>	V <sub>R</sub> =25V			2.0	uA
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =10mA, I <sub>R</sub> =10mA to 1mA , R <sub>L</sub> =100 Ω			5.0	ns
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> =1V,f=1MHz			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**