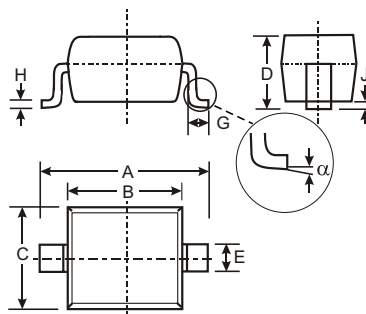


Features

- These diodes feature very low turn-on voltage and fast switching.
- These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: L 4



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.60	1.80
C	1.20	1.40
D	1.05 Typical	
E	0.25	0.35
G	0.20	0.40
H	0.10	0.15
J	0.05 Typical	
α	0°	8°
All Dimensions in mm		

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

Characteristic	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	30	Volts
Forward Continuous Current at $T_{amb} = 25^\circ\text{C}$	I_F	200 ⁽¹⁾	mA
Repetitive Peak Forward Current at $T_{amb} = 25^\circ\text{C}$	I_{FRM}	300 ⁽¹⁾	mA
Surge Forward Current at $t_p < 1\text{s}$, $T_{amb} = 25^\circ\text{C}$	I_{FSM}	600 ⁽¹⁾	mA
Power dissipation at $T_{amb} = 25^\circ\text{C}$	P_{tot}	150 ⁽¹⁾	mW
Maximum Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	- 65 to +150	$^\circ\text{C}$

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature

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

	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage tested with 100 μ A Pulses	$V_{(BR)R}$	30	—	—	Volts
Forward Voltage Pulse Test $t_p < 300\mu\text{s}$, $\delta < 2\%$ at $I_F = 0.1\text{mA}$	V_F	—	—	240	mV
at $I_F = 1\text{mA}$	V_F	—	—	320	mV
at $I_F = 10\text{mA}$	V_F	—	—	400	mV
at $I_F = 30\text{mA}$	V_F	—	—	500	mV
at $I_F = 100\text{mA}$	V_F	—	—	1000	mV
Leakage Current Pulse Test $t_p < 300\mu\text{s}$, $\delta < 2\%$ at $V_R = 25\text{ V}$	I_R	—	—	2	μA
Capacitance at $V_F = 1\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	—	—	10	pF
Reverse Recovery Time from $I_F = 10\text{mA}$ through $I_R = 10\text{ mA}$ to $I_R = 1\text{mA}$, $R_L = 100\ \Omega$	t_{rr}	—	—	5	ns
Thermal Resistance Junction to Ambient Air	R_{thJA}	—	—	650 ¹⁾	$^\circ\text{C/W}$