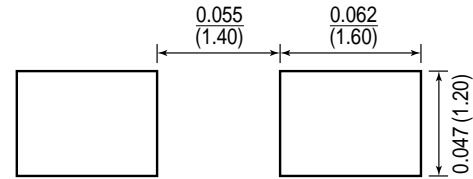
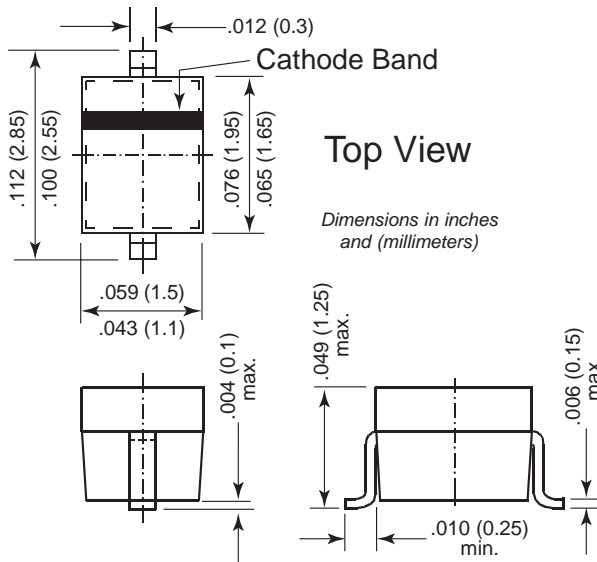




## Schottky Diode

**SOD-323**
**Mounting Pad Layout**


### 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 Plastic Package

**Weight:** approx. 0.004 grams

**Marking Code:** L4

**Packaging Codes/Options:**

D5/10K per 13" reel (8mm tape), 30K/box

D6/3K per 7" reel (8mm tape), 30K/box

## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Forward Continuous Current at T <sub>amb</sub> = 25°C	I <sub>F</sub>	200 <sup>(1)</sup>	mA
Repetitive Peak Forward Current at T <sub>amb</sub> = 25°C	I <sub>FRM</sub>	300 <sup>(1)</sup>	mA
Surge Forward Current at t <sub>p</sub> < 1 s, T <sub>amb</sub> = 25°C	I <sub>FSM</sub>	600 <sup>(1)</sup>	mA
Power Dissipation at T <sub>amb</sub> = 25°C	P <sub>tot</sub>	150 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	650 <sup>(1)</sup>	°C/W
Maximum Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>s</sub>	-65 to +150	°C

## Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

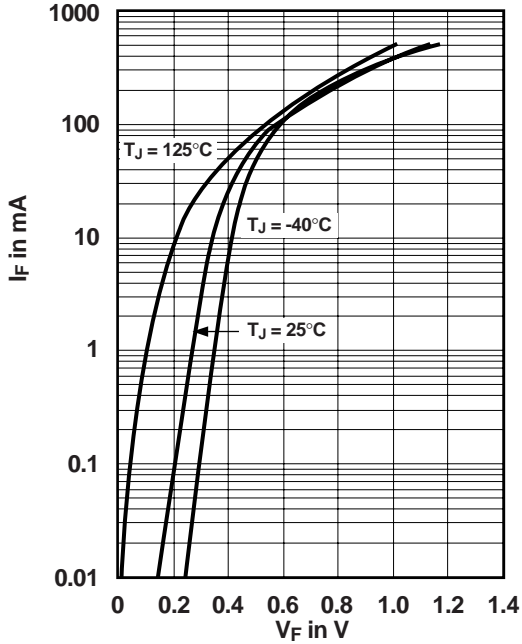
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	100μA pulses	30	—	—	V
Leakage Current <sup>(2)</sup>	I <sub>R</sub>	Pulse Test t <sub>p</sub> < 300μs δ < 2% at V <sub>R</sub> = 25V	—	—	2	μA
Forward Voltage <sup>(2)</sup>	V <sub>F</sub>	I <sub>F</sub> = 0.1mA I <sub>F</sub> = 1mA I <sub>F</sub> = 10mA I <sub>F</sub> = 30mA I <sub>F</sub> = 100mA	—	—	240 320 400 500 1000	mV
Capacitance	C <sub>tot</sub>	V <sub>F</sub> = 1V, f = 1MHz	—	—	10	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = 10mA, I <sub>R</sub> = 10mA I <sub>rr</sub> = 1mA, R <sub>L</sub> = 100Ω	—	—	5	ns

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

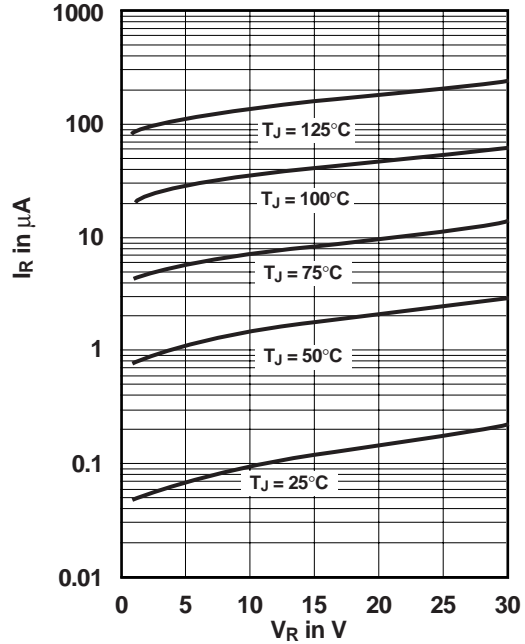
 (2) Pulse test: t<sub>p</sub> < 300μs, δ < 2%

### Ratings and Characteristic Curves

Typical Forward Voltage  
Forward Current  
at Various Temperatures



Typical Variation of Reverse  
Current at Various Temperatures



Typical Capacitance °C vs.  
Reverse Applied Voltage VR

