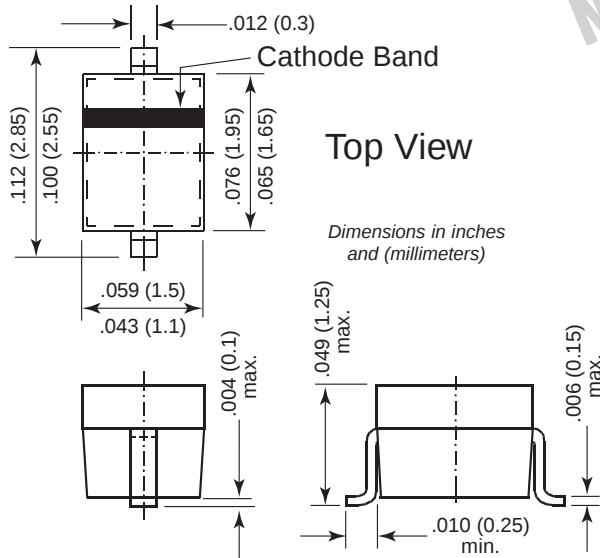
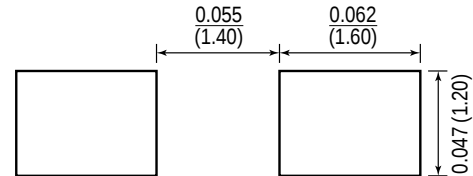




SOD-323



Mounting Pad Layout



Mechanical Data

Case: SOD-323 Plastic Package

Weight: approx. 0.004g

Marking Code: 73

Packaging Codes/Options:

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

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

Features

- Schottky diode for high-speed switching
- Circuit protection
- Voltage clamping
- High-level detecting and mixing

Maximum Ratings and Thermal Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	70	V
Forward Continuous Current at T _{amb} = 25°C	I _F	70	mA
Surge Forward Current at t _p < 1s, T _{amb} = 25°C	I _{FSM}	600	mA
Power Dissipation ⁽¹⁾ at T _{amb} = 25°C	P _{tot}	200	mW
Thermal Resistance Junction to Ambient Air ⁽¹⁾	R _{θJA}	650	°C/W
Junction Temperature	T _j	150	°C
Operating Temperature Range	T _{op}	-55 to +125	°C
Storage Temperature Range	T _s	-55 to +150	°C

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

Electrical Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 10μA (pulsed)	70	—	—	V
Leakage Current	I _R	V _R = 50V V _R = 70V	— —	— —	0.1 10	μA
Forward Voltage	V _F	I _F = 1mA I _F = 10mA I _F = 15mA ⁽¹⁾	— — —	375 705 880	410 750 1000	mV
Capacitance	C _{tot}	V _R = 0V f = 1MHz	—	1.5	2	pF
Charge Carrier Lifetime	τ	I _F = 25mA	—	100	—	ps
Differential Forward Resistance	R _F	I _E = 5mA, f = 10KHz	—	34	—	Ω

Note:

(1) Pulse test; t_p ≤ 300μs