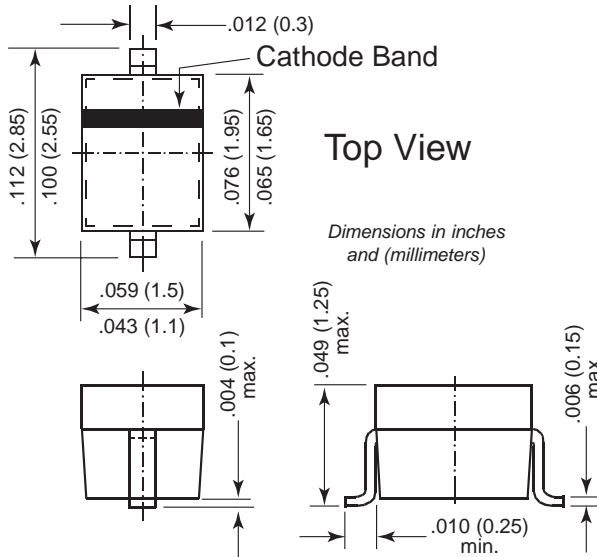
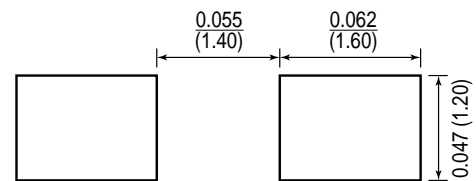


**Schottky Diode****SOD-323****Mounting Pad Layout****Mechanical Data****Case:** SOD-323 Plastic Package**Weight:** approx. 0.004g**Marking Code:** 73**Packaging Codes/Options:**

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** ( $T_C = 25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	70	V
Forward Continuous Current at $T_{amb} = 25^\circ\text{C}$	$I_F$	70	mA
Surge Forward Current at $t_p < 1\text{s}$ , $T_{amb} = 25^\circ\text{C}$	$I_{FSM}$	600	mA
Power Dissipation <sup>(1)</sup> at $T_{amb} = 25^\circ\text{C}$	$P_{tot}$	200	mW
Thermal Resistance Junction to Ambient Air <sup>(1)</sup>	$R_{\theta JA}$	650	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Operating Temperature Range	$T_{op}$	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +150	$^\circ\text{C}$

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

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

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

**Note:**

(1) Pulse test; t<sub>p</sub> ≤ 300μs



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