

0.016 (0.4) 0.010 (0.2)

Surface Mount Small Signal Schottky Diodes



Mechanical Data

· Low forward voltage

- Case:Molded Plastic,SOD-323
- · Epoxy:UL 94V-0 rate flame retardant

Small plastic SMD SOD-323 package

- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026
- Mounting Position : Any.
- Marking:S1

0.075 (1.9) 0.059 (1.5) 0.059 (1.5) 0.043 (1.1)

0.09 (2.3)

0.020 (0.5) 0.008 (0.2) 0.11 (2.8)

0.008 (0.2) 0.004 (0.1)

Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Forward Current	I _F	350	mA
Peak Forward Surge Current ($t_p = 10 \text{ ms}$)	I _{FSM}	2	А
Thermal Resistance from Junction Ambient	R _{thJA}	550	°C/W
Maximum Operating Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 25 μΑ	V _{(BR)R}	40	-	V
Forward Voltage at $I_F = 0.1 \text{ mA}$ at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 200 \text{ mA}$ at $I_F = 500 \text{ mA}$	V _F	- - - - -	0.25 0.3 0.4 0.5 0.75 0.9	V
Reverse Current at $V_R = 1.5 V$ at $V_R = 10 V$ at $V_R = 20 V$ at $V_R = 40 V$	I _R	- - -	1 2 5 25	μΑ



SOD-323

(0.10) (0.00) (1.2) (0.9) 0004 000 047 035



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Rating And Characteristic Curves

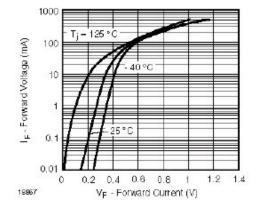


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

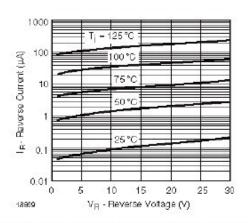


Figure 3. Typical Variation of Reverse Current at Various Temperatures

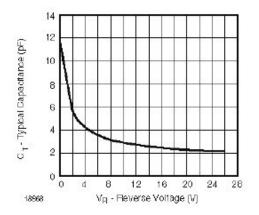


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage V_R

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