

SD101AWS THUR SD101CWS

(0.3+0.1)

0.012^{"+0.0004"}

0.006" (0.15)

MAX

SMALL SIGNAL SCHOTTKY DIODES

_(1.7<u>+</u>0.1)___ 0.068″<u>+</u>0.004

(2.5±0.2) 0.100″±0.008

0.0008"(0.2)

0.010" (0.25)

MIN

SOD-323

FEATURES

- For general purpose applications
- The SD10AW to SD101CW series is a Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications
- These diodes are also available in the Mini-MELF case with type designation LL101A to LL101C , in the DO-35 case with type designation SD101A to SD101C and in the SOD-123 case with type designation SD101AW to SW101CW

MECHANICAL DATA

- · Case: SOD-323 plastic case
- Weight: Approx. 0.0040 gram

ABSOLUTE RATINGS (LIMITING VALUES)

		Symbols	Value	Units
Peak Reverse Voltage	SD101AWS SD101BWS SD101CWS	Vrrm Vrrm Vrrm	60 50 40	V V
Power Dissipation (infinite Heat Sink)		Ptot	400 1)	mW
Maximum Single cycle surge 10µs square wave		IFSM	2.0	A
Junction temperature		TJ	125	°
Storage Temperature Range		Tstg	-55 to+150	°
1) Valid provided that electrodes are kept of	at ambient temperature			

ELECTRICAL CHARACTERISTICS

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

		Symbols	Min.	Typ.	Max.	Unis
Reverse breakdown voltage at IR=10µA	SD101AWS SD101BWS SD101CWS	Vr Vr Vr	60 50 40			V V V
Leakage current at V _R =50V V _R =40V V _R =30V	SD101AWS SD101BWS SD101CWS	IR IR IR			200 200 200	nA nA nA
Forward voltage drop at IF=1mA IF=15mA	SD101AWS SD101BWS SD101CWS SD101AWS SD101BWS SD101CWS	VF VF VF VF VF VF			0.41 0.4 0.39 1 0.95 0.9	>>>>>>
Junction Capacitance at $V_R=0V$,f=1MHz	SD101AWS SD101BWS SD101CWS	ပ်ပ			2.0 2.1 2.2	pF pF pF
Reverse Recovery time at IF=IR=5mA, recover to 0.1 IR		trr			1	ns
Thermal resistance, junction to Ambient		Reja			650 ¹⁾	°C/W

 $(1.25^{+0.2}_{-0.1})$

(0.9±0.1) 0.036″±0.004″

0.060^{"+0.0008"} -0.0004"

Dimensions in inches and (millimeters)

0.004" (0.1)