

SD107WS-AU

Surface Mount Schottky Diodes

Voltage 30 V **Current** 0.2 A

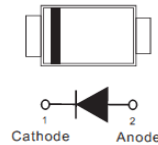
Features

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SOD-323 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0041 grams

SOD-323



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Current	I _{F(AV)}	0.2	A
Peak Forward Surge Current : 10 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	0.75	A
Maximun Junction Capacitance Measured at 1 MHZ And Applied V _R = 10 V	C _J	7	pF
Typical Thermal Resistance ^(Note 1)	R _{θJA}	625	°C/W
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

SD107WS-AU

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 2 mA, T _J = 25 °C	-	-	0.36	V
		I _F = 50 mA, T _J = 25 °C	-	-	0.55	
		I _F = 100 mA, T _J = 25 °C	-	-	0.8	
		I _F = 50 mA, T _J = 125 °C	-	0.3	-	
		I _F = 100 mA, T _J = 125 °C	-	0.39	-	
Reverse Current ^(Note 2)	I _R	V _R = 21 V, T _J = 25 °C	-	0.3	-	uA
		V _R = 25 V, T _J = 25 °C	-	-	1	
		V _R = 25 V, T _J = 125 °C	-	0.3	-	mA

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, with 70 x 60 x 1 mm copper pad area.
2. Short duration pulse test used to minimize self-heating effect.

SD107WS-AU

TYPICAL CHARACTERISTIC CURVES

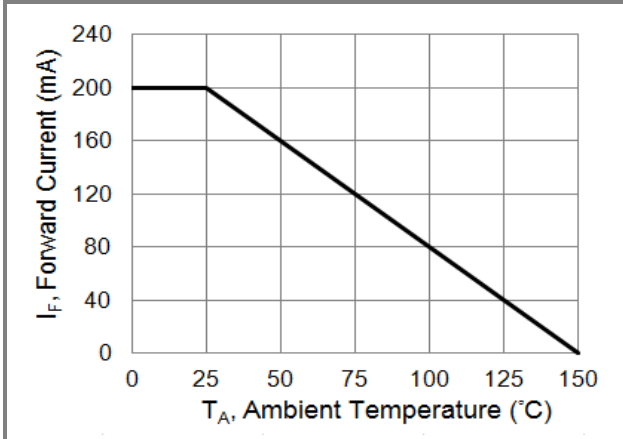


Fig.1 Forward Current Derating Curve

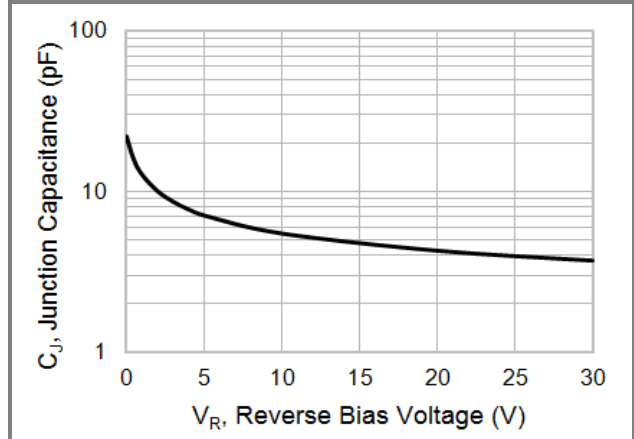


Fig.2 Typical Junction Capacitance

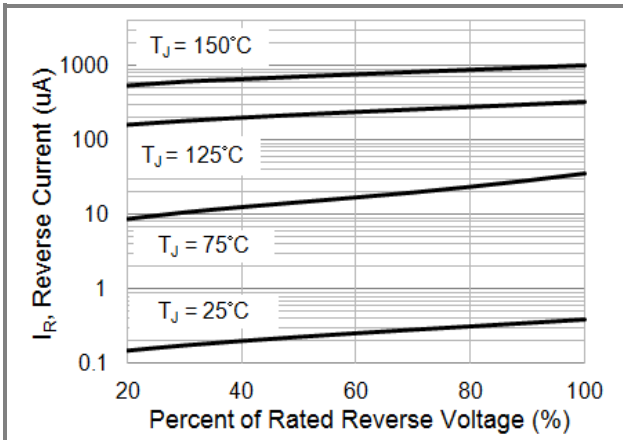


Fig.3 Typical Reverse Characteristics

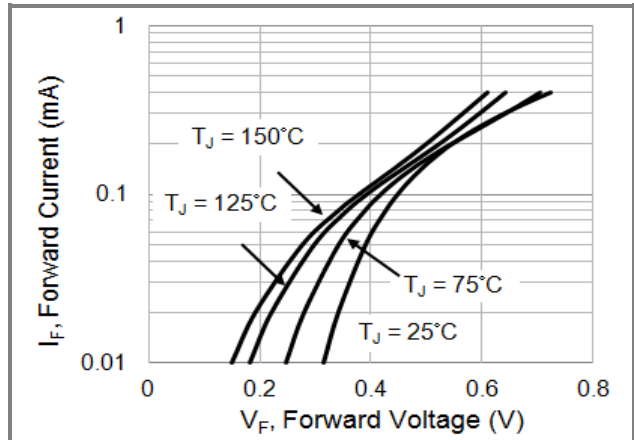


Fig.4 Typical Forward Characteristics

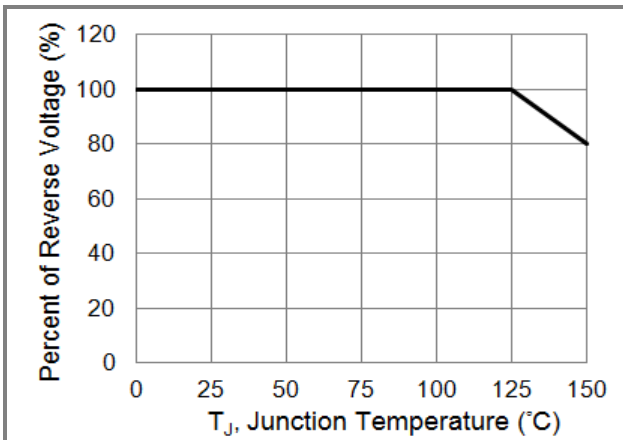


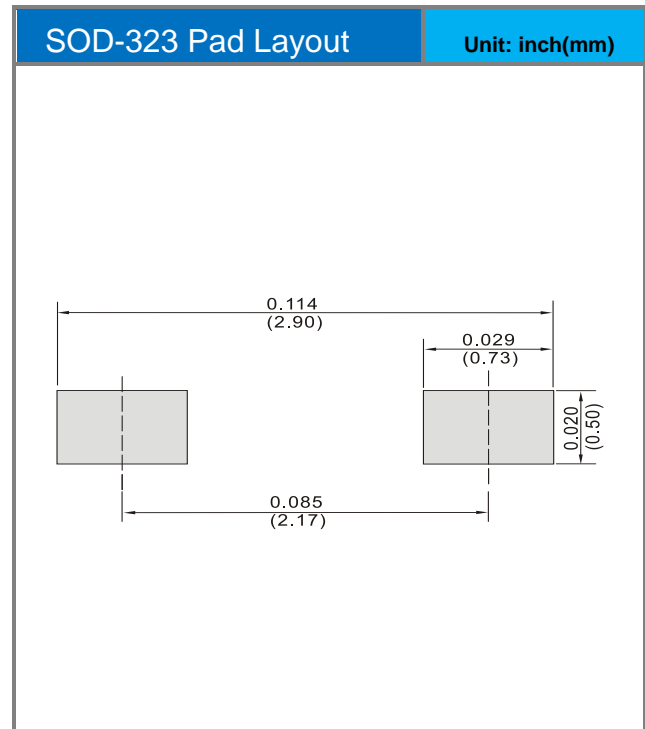
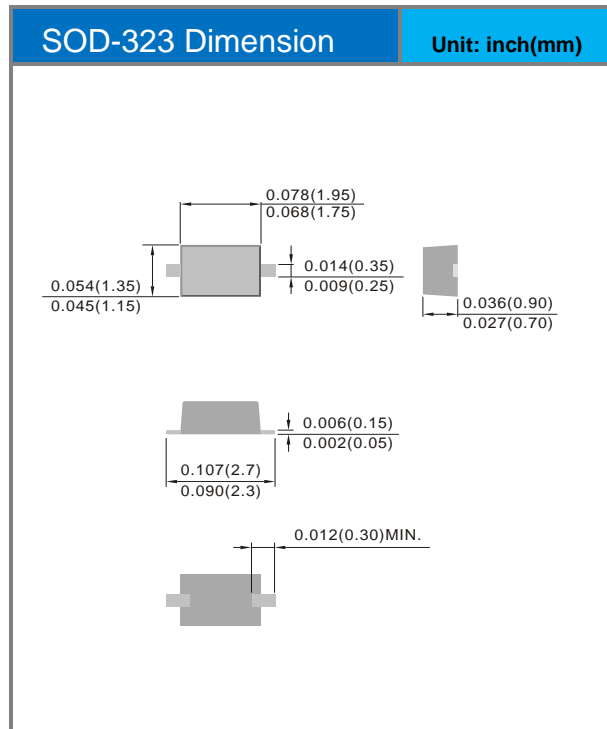
Fig.5 Operating Temperature Derating Curve

SD107WS-AU

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SD107WS-AU	SOD-323	5K pcs / 7" reel	S9

Packaging Information & Mounting Pad Layout



SD107WS-AU

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