

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ 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	А
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 $V_R = 10 V$	CJ	7	pF
Typical Thermal Resistance	$R_{\theta JA}{}^{(1)}$	625	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

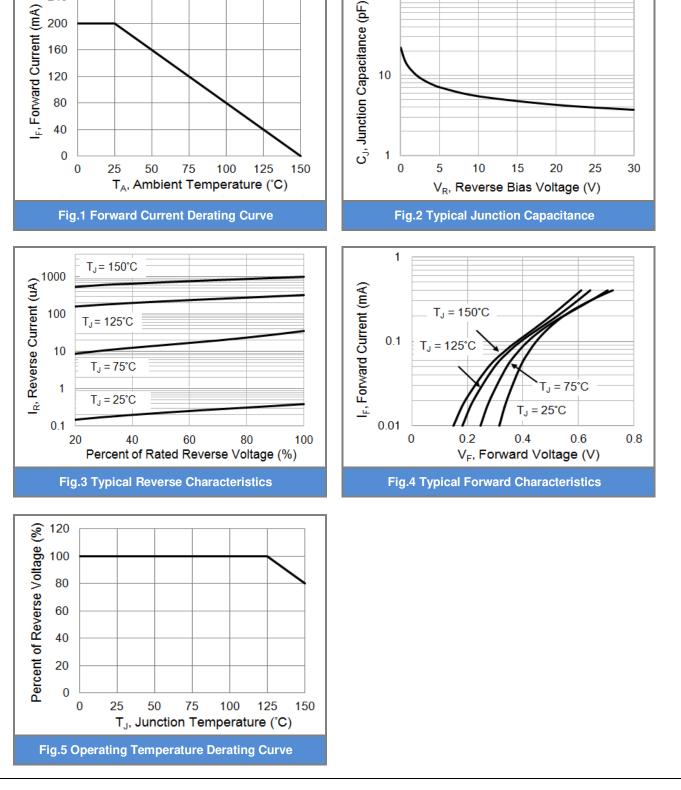




PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 2 \text{ mA}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	0.36	V
		I _F = 50 mA, T _J = 25 °C	-	-	0.55	
		$I_F = 100 \text{ mA}, T_J = 25 ^{\circ}\text{C}$	-	-	0.8	
		I _F = 50 mA, T _J = 125 °C	-	0.3	-	
		I _F = 100 mA, T _J = 125 °C	-	0.39	-	
Reverse Current	$I_R^{(2)}$	$V_{R} = 21 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.3	-	uA
		$V_{R} = 25 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	1	
		$V_{R} = 25 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	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



100

SD107WS-AU

TYPICAL CHARACTERISTIC CURVES

240

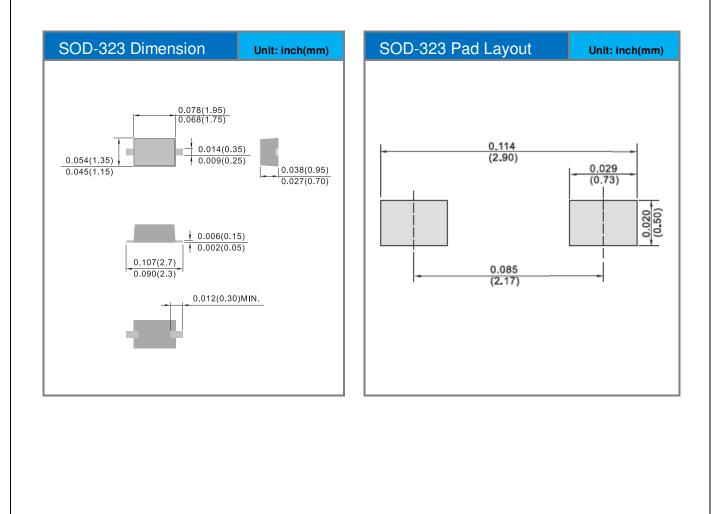




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SD107WS-AU_R1_000A1	SOD-323	5K / 7" Reel	S9	Halogen free

Packaging Information & Mounting Pad Layout





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