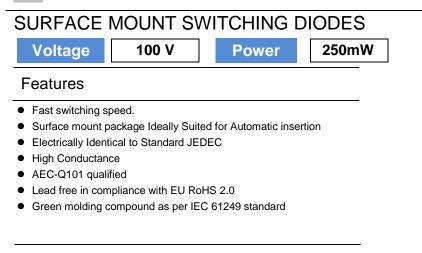
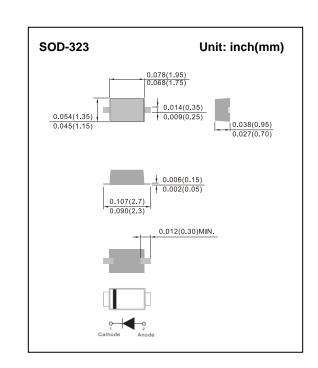


### 1N4148WS-AU



### Mechanical Data

- Case: SOD-323, plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.0041 grams



#### Maximum Ratings ( $T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	1N4148WS-AU	UNIT
Marking code		-	A2	-
Reverse voltage		Vr	75	V
Maximum dc blocking voltage		Vdc	75	V
Peak reverse voltage		Vrm	100	V
RMS voltage		Vrms	50	V
Maximum average forward current at TA=25°C		lf(AV)	200	mA
0.001msPeak forward surge current10ms1s		IFSM	4 1.5 0.5	А
Power dissipation derate above 25°C		PD	250	mW
Maximum forward voltage		VF	0.715@1mA 0.855@10mA 1@50mA 1.25@150mA	V
Maximum dc reverse current at rated dc blocking voltage		IR	0.025@20V 2.5@75V	μΑ
Junction capacitance Measured at 1MHz and applied V <sub>R</sub> =0V		CJ	1.5	pF
Maximum reverse recovery time	(Note 3)	Trr	4	ns
Typical thermal resistance	(Note 1) (Note 2) (Note 4) (Note 4)	Reja Reja Rejc Rejl	500 650 280 400	°C/W
Operating and storage temperature range	ge	Тј, Тѕтб	-55 to +150	°C

Note : 1. Mounted on a FR4, single-sided copper, with 50 x 15mm PCB.

2. Mounted on a FR4, single-sided copper, with mini pad.

3. From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$ .

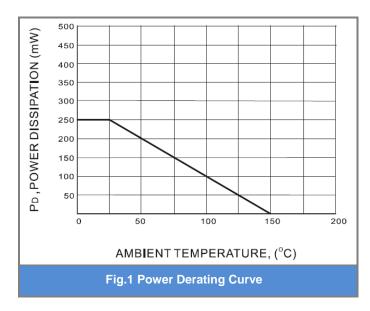
4. Mounted on a FR-4 PCB, single-sided copper, mini pad, with 100cm<sup>2</sup> copper pad area.





# 1N4148WS-AU

#### TYPICAL CHARACTERISTIC CURVES



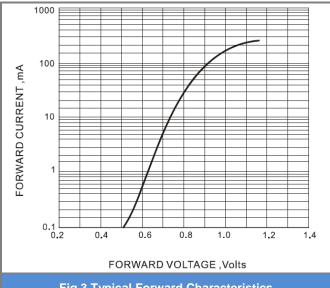
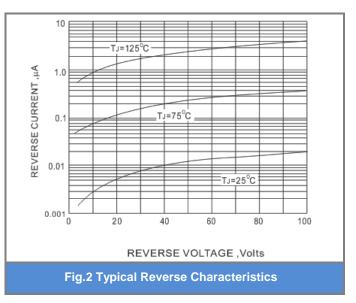


Fig.3 Typical Forward Characteristics





## 1N4148WS-AU

#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
1N4148WS-AU_R1_000A1	SOD-323	5K pcs / 7" reel	A2	Halogen free
1N4148WS-AU_R2_000A1	SOD-323	12K pcs / 13" reel	A2	Halogen free

#### **Mounting Pad Layout**

