



100 Volt

SURFACE MOUNT SWITCHING DIODES

POWER 250mWatt

FEATURES

VOLTAGE

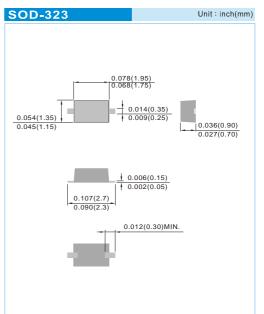
- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Acquire quality system certificate: TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

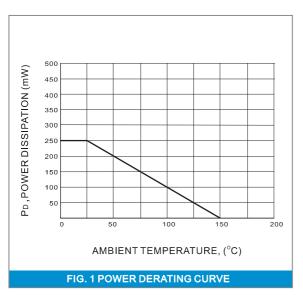
PARAMETER		SYMBOL	1N4148WS-AU 1N4448WS-AU		BAV16WS-AU	UNITS	
Marking Code		-	A2	А3	A6	-	
Reverse Voltage		V _R	75				
Peak Reverse Voltage		V _{RM}	100				
RMS Voltage		V _{RMS}	50				
Maximum Average Forward Current at T _A =25°C		I _{F(AV)}	200				
Peak Forward Surge Current	0.001ms 10ms 1s	I _{FSM}	4 1.5 0.5				
Power Dissipation Derate Above 25°C		P _D	250				
Maximum Forward Voltage		V _F	0.715 @ 0.001A 0.855 @ 0.01A 1 @ 0.05A 1.25 @ 0.15A		0.715 @ 0.001A 0.855 @ 0.01A 1 @ 0.05A	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage		I _R	0.025 @ 20V 2.5 @ 75V	2.5 @ 75V	1 @ 75V	μА	
Junction Capacitance (Note 1)		C _J	1.5 4		2	pF	
Maximum Reverse Recovery Time (Note 2)		t _{rr}	4 4		6	ns	
Typical Thermal Resistance	(Note 3) (Note 4)	$R_{_{\theta JA}}$	500 650			°C / W	
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +150				

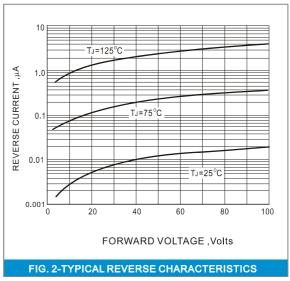
Notes:

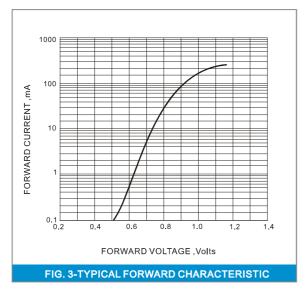
- 1. CJ at VR=0, f=1MHz
- 2. From I F=10mA to I R=1mA, VR=6Volts, $RL=100\Omega$
- 3. Mounted on a FR4, single-sided copper, with 50 x 15mm PCB
- 4. Mounted on a FR4, single-sided copper, with mini pad







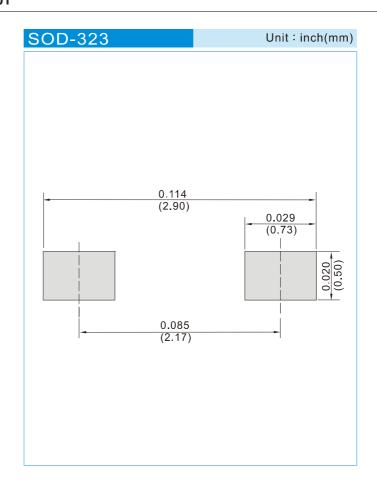








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

1N4148WS-AU_R1_000A1 1N4148WS-AU_R2_000A1

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13"

Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	Х					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					

Packing type means T/R





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