



1N4148WS SERIES

SURFACE MOUNT SWITCHING DIODES

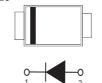
VOLTAGE 100 Volt POWER 250mWatt

FEATURES

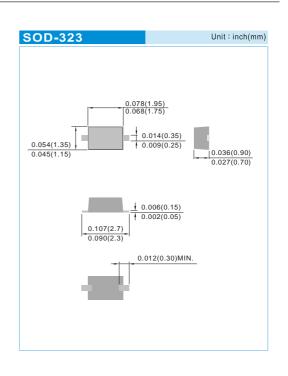
- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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



Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Cathode

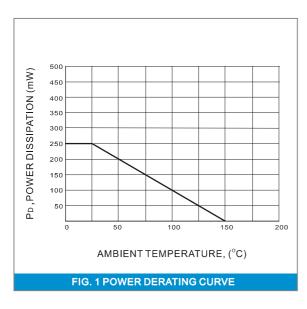
PARAMETER	SYMBOL	1N4148WS	1N4448WS	BAV16WS	UNITS	
Marking Code	-	A2	А3	A 6	-	
Reverse Voltage	V _R	75				
Peak Reverse Voltage	V _{RM}	100				
RMS Voltage	V _{RMS}	50				
Maximum Average Forward Current at T _A =25°C	I _{F(AV)}	200				
Peak Forward Surge Current, 0.001ms	I _{FSM}	4				
Power Dissipation 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	0.72 @ 0.005A 1 @ 0.1A	0.855 @ 0.01A	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 (Notes1)	C _J	1.5	4	2	pF	
Maximum Reverse Recovery Time (Notes2)	t _{rr}	4	4	6	ns	
Typical Thermal Resistance	R _{eJA}	500				
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150				

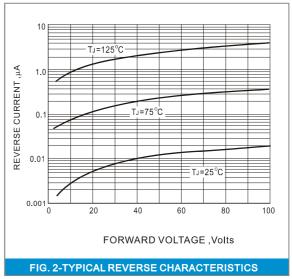
Notes:

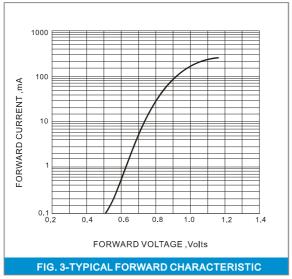
- 1. CJ at VR=0, f=1MHz
- 2. From I <code>F=10mA</code> to I <code>R=1mA</code>, <code>VR=6Volts</code>, <code>RL=100</code> Ω



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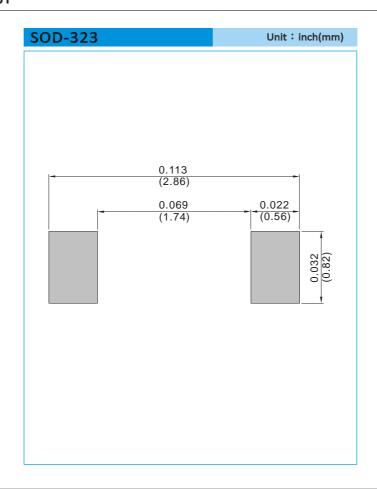






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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel



Part Number: 1N4148WS SERIES

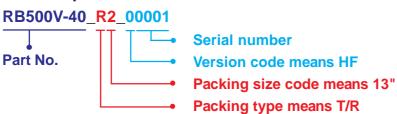


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Part No_packing code_Version

1N4148WS_R1_00001 1N4148WS_R2_00001

For example:



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	X				
Tape and Reel (Right Oriented) (TRR)	s	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

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