

1N4148WS, 1N4448WS

Surface Mount Switching Diodes

Voltage 100 volts Power 250mwatts

SOD-323L



FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- ◆ Electrically identical to standard JEDEC
- High conductance

MECHANICAL DATA

Case:SOD-323L, plastic

Terminals: Solderable per MIL-STD-202, method 208

Approx: Weight: 0.008 gram

Marking: A2, A3

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load. For capacitive load current derate by 20%.

	SYMBOLS	1N4148WS	1N4448WS	UNITS
Reverse Voltage	VR	75	75	Volts
Peak Reverse Voltage	VRM	100	100	Volts
Rectified Current(Average), Half Wave Rectification with Resistive Load and f>=50Hz	lo	150	150	mAmps
Peak forward surge current 0.001ms single half sine wave superimposed on rated load (JEDEC Method)	İfsm	4.0	4.0	Amps
Power Dissipation Derate Above 25°C	P _{TOT}	200	200	mWatts
Maximum Forward Voltage	V _F	1@I _F =10mA	0.72@I _F =5mA 1@I _F =10mA	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	2.5	2.5	uA
Typical junction capacitance (NOTE 1)	Слот	1.5	4.0	рF
Maximum Reverse Recovery (NOTE 2)	t _{rr}	4.0	4.0	ns
Maximum Thermal Resistance	$R_{\Theta JA}$	357		°C/W
Storage Temperature Range	TJ	-55 to +125		°C

NOTES:

1.CJatVR=0,f=1MHZ.

2.From IF=10mA to IR=1mA, VR=6 volts, RL=100 Ω

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Voltage

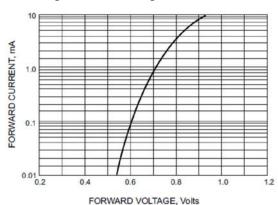


Fig.2 Leakage Current

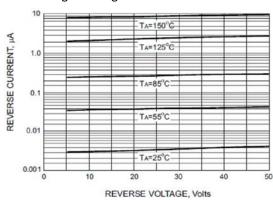
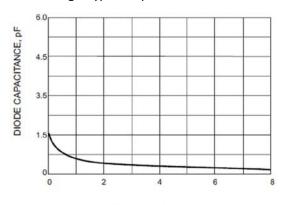


Fig.3 Typical Capaticance



REVERSE VOLTAGE, Volts

RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT