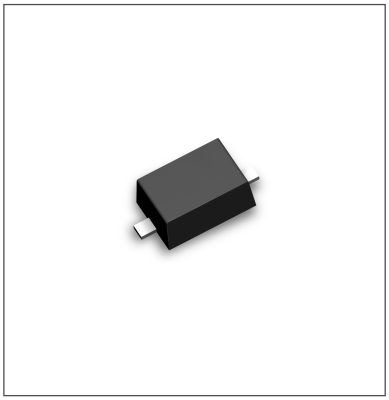
1N4148WS, 1N4448WS

SURFACE MOUNT SWITCHING DIODES

	75 Volts	POWER	200 mWatts	PACKAGE	SOD-323

FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance



MECHANICAL DATA

Case: SOD-323, Plastic

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

Approx. Weight: 0.008 gram

Marking: A2, A3

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25^{O}C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

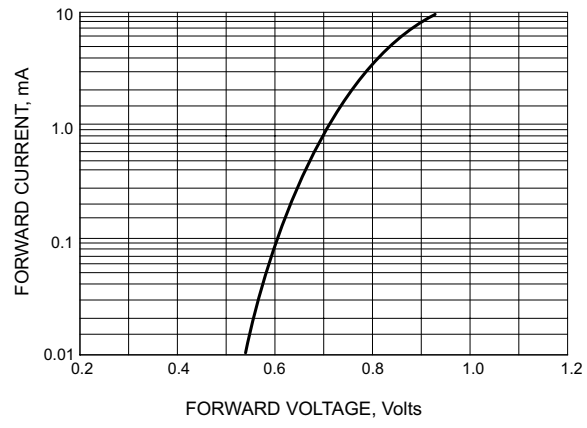
PARAMETER	SYMBOL	1N4148WS	1N4448WS	UNITS
Reverse Voltage	V_R	75	75	V
Peak Reverse Voltage	V_{RM}	100	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	I_O	150	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	2.0	4.0	A
Power Dissipation Derate Above 25^{O}C	P_{TOT}	200	200	mW
Maximum Forward Voltage	V_F	1 @ I_F=10mA	0.72 @ I_F=5mA 1 @ I_F=10mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J= 25^{O}C	I_R	2.5	2.5	µA
Typical Junction Capacitance(Notes1)	CJot	4.0	4.0	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	4.0	4.0	ns
Maximum Thermal Resistance	RθJA	357		^{O}C / W
Storage Temperature Range	T_J	-55 TO +125		^{O}C

NOTE:

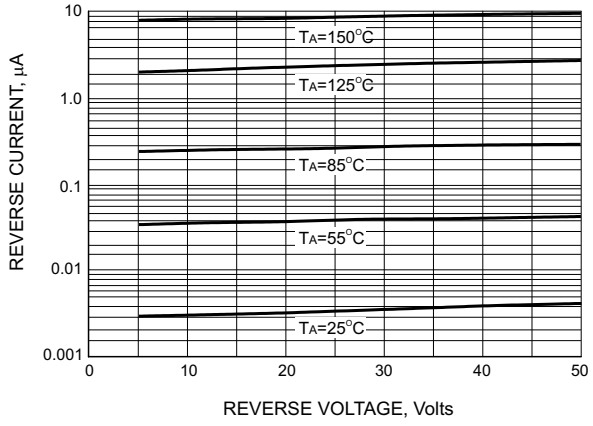
1. CJ at V_R=0, f=1MHZ

2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

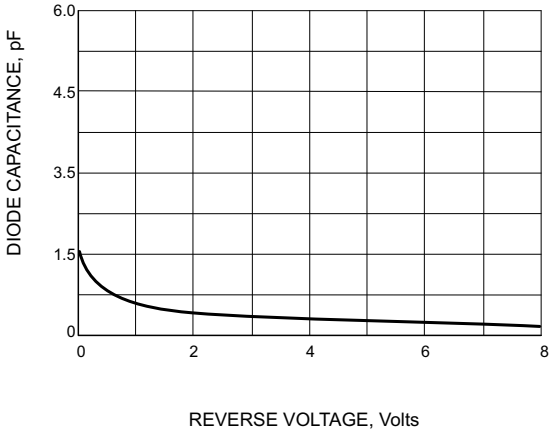
RATING and CHARACTERISTIC CURVES



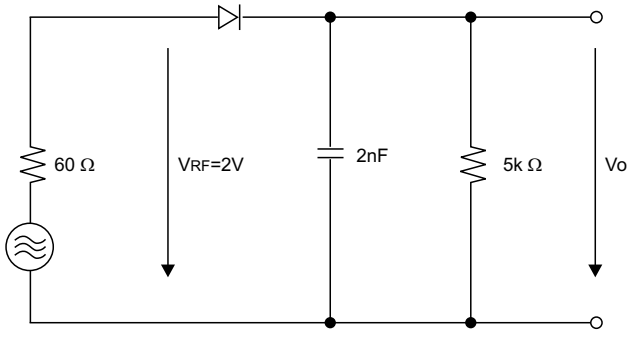
FORWARD VOLTAGE



LEAKAGE CURRENT



TYPICAL CAPATICANCE



RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT

OUTLINE DRAWING

SOD-323