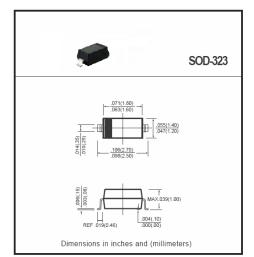


1N4148WS

表面安装开关二极管 反向电压75 V 功率0.2 W



Surface Mount Switching Diodes Reverse Voltage 75 V Power 0.2 W

FEATURES

Fast switching speed.. Surface mount package ideally suited for automated assembly processes High Conductance Available in Lead Free Version

Mechanical Data

Case: Molded plastic body Terminals: Solder plated Polarity: Color band denotes cathode end Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbo	Limits	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz @Ta=25° C	Ι _Ο	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	2.0	A
Power Dissipation Derate Above 25°C	PD	200	mW
Maximum Forward Voltage	VF	1.0@IF=10mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage TJ= 25°C	lr	2.5	μΑ
Maximum Thermal Resistance	Reja	357	°C / W
Typical Junction Capacitance(Notes1)	CJ	4.0	pF
Maximum Reverse Recovery (Notes2)	Trr	4.0	ns
Storage Temperature Range	TJ	-55 TO +125	°C

NOTE:

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

2.From I_=10mA to I_=1mA, V_=6Volts, R_=100\Omega



TA=150°C

TA=125°C

TA=85°C

TA=55°C

TA=25°C

REVERSE VOLTAGE, Volts

30

2nF

40

≥

5k Ω

50

0

٧o

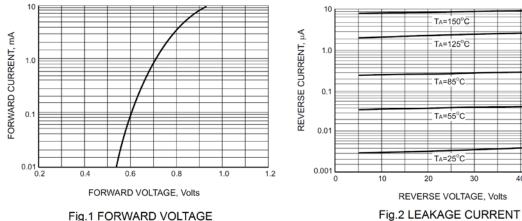
20

Þ

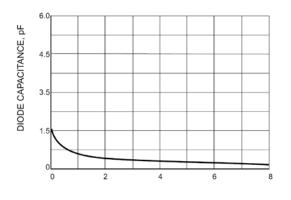
VRF=2V

≤ 60 Ω

Typical Characteristics



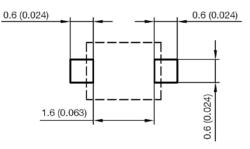




REVERSE VOLTAGE, Volts Fig.3 TYPICAL CAPATICANCE RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT



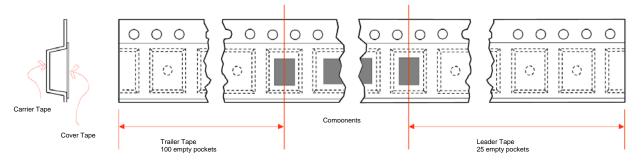
Mounting Pad layout



Packing

Part number	Component Package	Quantity	Packaging Option
1N4148WS	SOD-323	3000	Tape & Reel – 8mm/7" tape
		10000	Tape & Reel – 8mm/13" tape

SOD-323 Tape Leader and Trailer Configuration



Tape and Reel Specification

