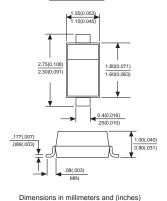


# 1N4148WS

## **FAST SWITHING DIODES**

#### SOD-323



## **FEATURES**

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

# **MECHANICAL DATA**

Case: Molded plastic body Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Polarity symbols marked on case

Marking: T4

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics. Single diode @T<sub>A</sub>=25°C

Illiaximum ratings and electrical characteristic	s, onigic	41040 @ TA-200	
PARAMETER	SYMBOLS	Limits	UNITS
Maximum repetitive peak reverse voltage	VRRM	100	
Maximum RMS voltage	VRMS	75	V
Reverse Breakdown voltage at I <sub>R</sub> =1µA	V <sub>(BR)R</sub>	75	
Forward continuous current	Ігм	300	mA
Average rectified output current	lo	150	mA
Peak forward current @=1.0MS	IFSM	4.0	Α
Power dissipation	Pd	400	mW
Thermal resistance junction to ambient	R⊕ja	250	°C/W
Junction temperature	Tj	125	°C
Storage temperature	Тѕтс	-55 to +150	°C

Electrical ratings @TA=25C

PARAMETER	SYMBOLS	Min.	Тур.	Max.	Unit	Conditions
Froward voltage	V <sub>F1</sub>			0.715	V	I <sub>F</sub> =1.0mA
	V <sub>F2</sub>			0.855	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1.0	V	I <sub>F</sub> =50mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Reverse current	I <sub>R1</sub>			0.025	uA	at VR=20V T <sub>j</sub> =25°C
	I <sub>R2</sub>			1	uA	at V <sub>R</sub> =75V T <sub>j</sub> =25°C
	lяз			30	uA	at VR=25V T <sub>i</sub> =150°C
	I <sub>R4</sub>			50	uA	at VR=75V T <sub>j</sub> =150°C
Capacitance between terminals	Ст			5	pF	V <sub>R</sub> =0V,f=1.0MHz
Reverse recovery time	trr			8	ns	I=IR=10mA
	Lrr					Irr=0.1XIR,RL=100 $\Omega$



#### **RATINGS AND CHARACTERISTIC CURVES 1N4148WS**

Fig.1 Forward Current Derating Curve

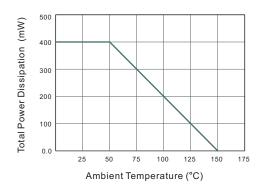


Fig.2 Typical Reverse Characteristics

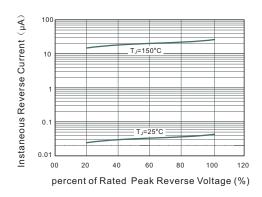


Fig.3 Typical Instaneous Forward Characteristics

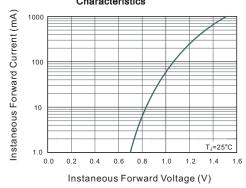
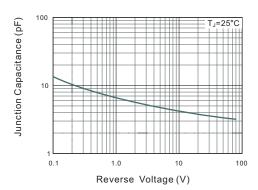


Fig.4 Typical Junction Capacitance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

