

1N4148WS

FAST SWITCHING DIODES

Features

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

Mechanical Data

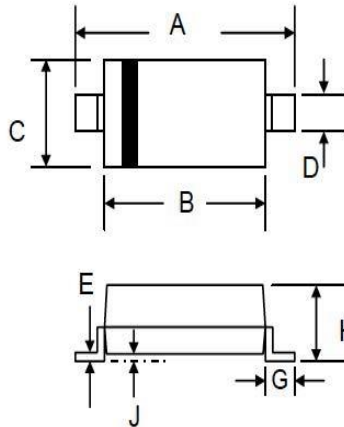
- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

- Polarity: Polarity symbols marked on case
- Marking: T6, T4

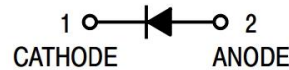
Packing & Order Information

3,000/Box



SOD-323		
Dim	Min	Max
A	2.30	2.75
B	1.60	1.80
C	1.15	1.35
D	0.25	0.40
E	0.09	0.18
G	0.20	0.40
H	0.80	1.00
J	—	0.12
All Dimensions in mm		

Graphic symbol



RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @TA=25°C

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage	V_{RRM}	75	V
Working peak	V_{RWM}		
DC Blocking voltage	V_R		
RMS Reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	300	mA
Average rectified output current	I_O	150	mA
Peak forward current @=1.0us @=1.0s	I_{FSM}	2.0 1.0	A
Power dissipation	P_D	400	mW
Thermal resistance junction to ambient	R_{QJA}	625	K/W
Junction temperature	T_j	125	°C
Storage temperature	T_{STG}	-65 to +150	°C
Non-Repetitive peak reverse voltage	V_{RM}	100	V

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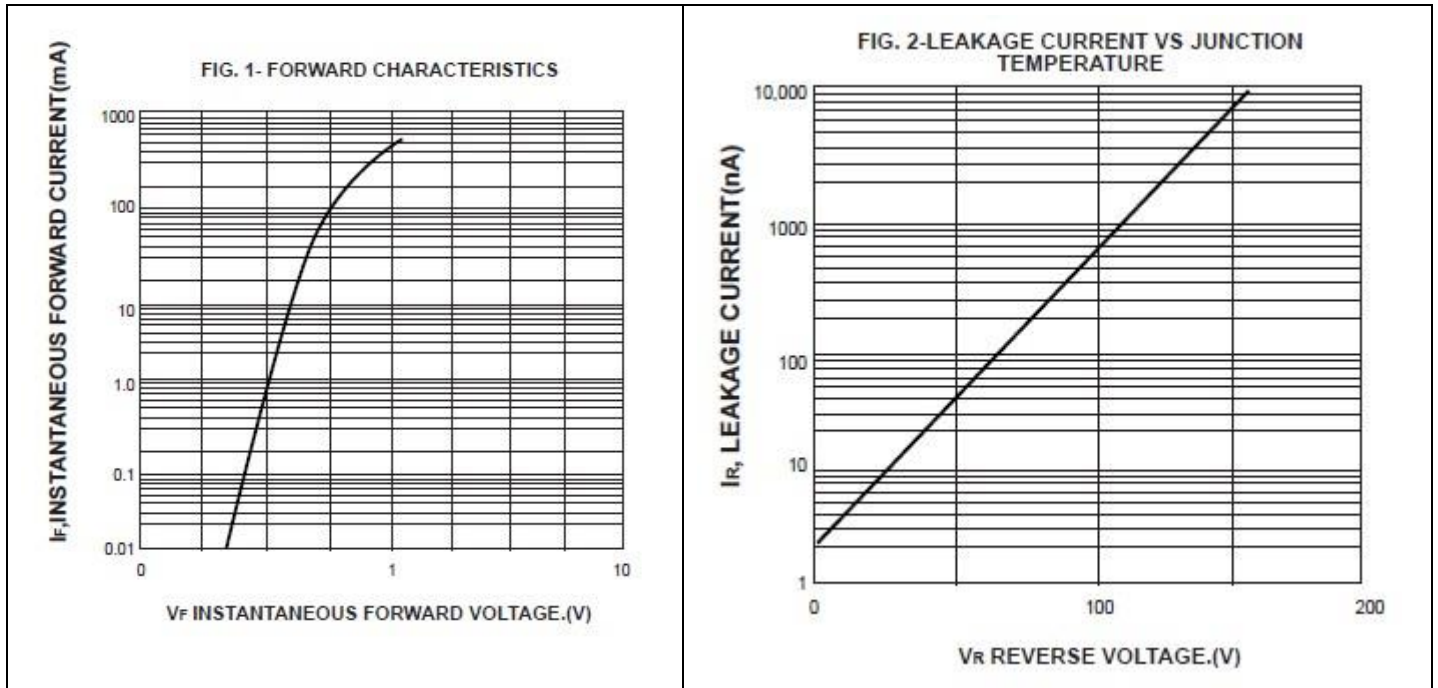
Maximum ratings and electrical characteristics, Single diode @TA=25°C

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF=1.0mA	V _{F1}			0.72	V
	IF=10mA	V _{F2}			0.85	V
	IF=50mA	V _{F3}			1	mA
	IF=150mA	V _{F4}			1.25	mA
Reverse current	VR=75V	I _{R1}			1	mW
	VR=20V	I _{R2}			25	
Capacitance between terminals	VR=0V,f=1.0MHz	C _T			2	°C
Reverse recovery time	IF=IR=10mA Irr=0.1XIR,RL=100	T _{RR}			4	°C

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■ RATINGS AND CHARACTERISTIC CURVES 1N4148WS



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