JS-1N4148WS

SOD-323 Plastic-Encapsulate Schottky Barrier Diodes

Features

- Fast Switching Speed.
- High Conductance.
- For General Purpose Switching Applications.
- Surface Mount Package Ideally Suited for Automatic Insertion.

SOD-323

Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V_{RM}	Non-repetitive Peak Reverse Voltage Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	100	V
V_{RRM}			
V_{RWM}			
V_R			
$V_{R(RMS)}$	RMS Reverse Voltage	71	V
I_O	Average Rectified Output Current	150	mA
I_{FM}	Forward Continuous Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P_d	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	600	℃/W
T_J	Operation Junction Temperature Range	-40~+125	℃
T_{STG}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	I_R=100μA	100			V
I_R	Reverse voltage leakage current	V_R=75V			1	μA
		V_R=20V			25	nA
V_F	Forward voltage	I_F=1mA			0.715	V
		I_F=10mA			0.855	V
		I_F=50mA			1.0	V
		I_F=150mA			1.25	V
C_D	Diode capacitance	V_R=0V, f=1.0MHz			2	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA ,Irr=0.1XI_R ,R_L=100Ω			4	nS

Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
1N4148WS	SOD-323	封装标识 Packaging label 1N4148WS 产品名称 product name	T4	3000

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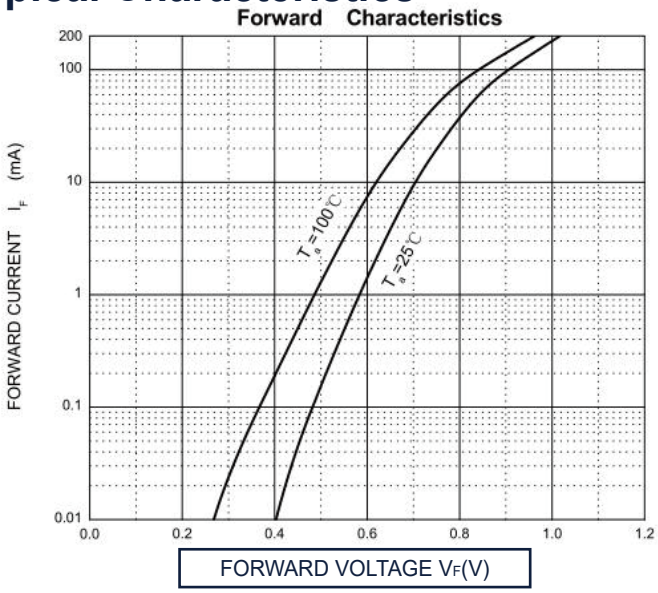
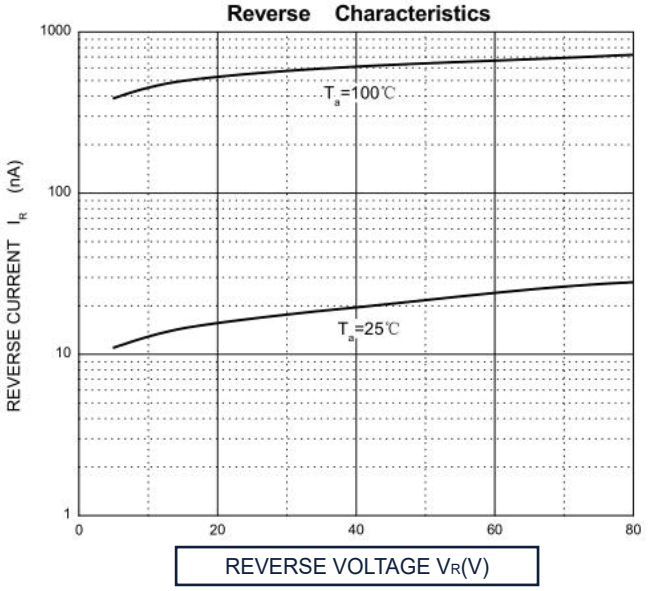
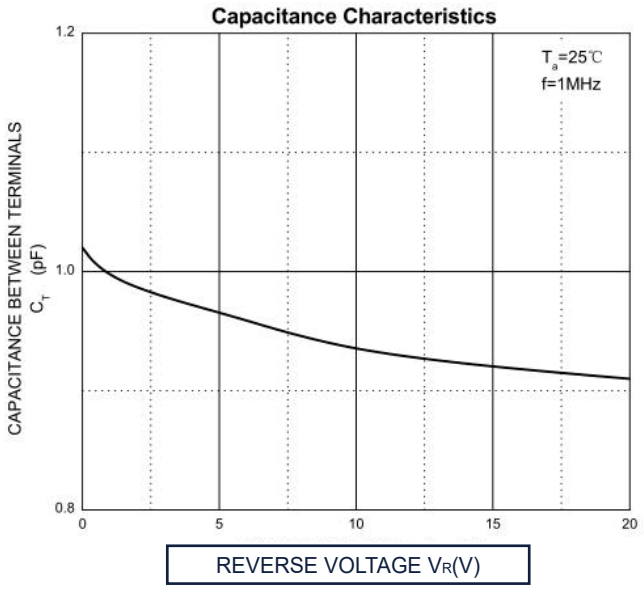
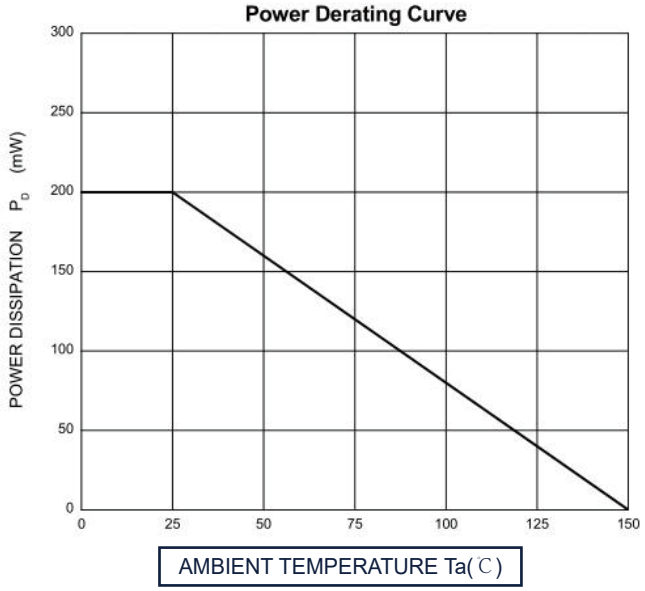
SOD-323 Plastic-Encapsulate Schottky Barrier Diodes

Typical Characteristics



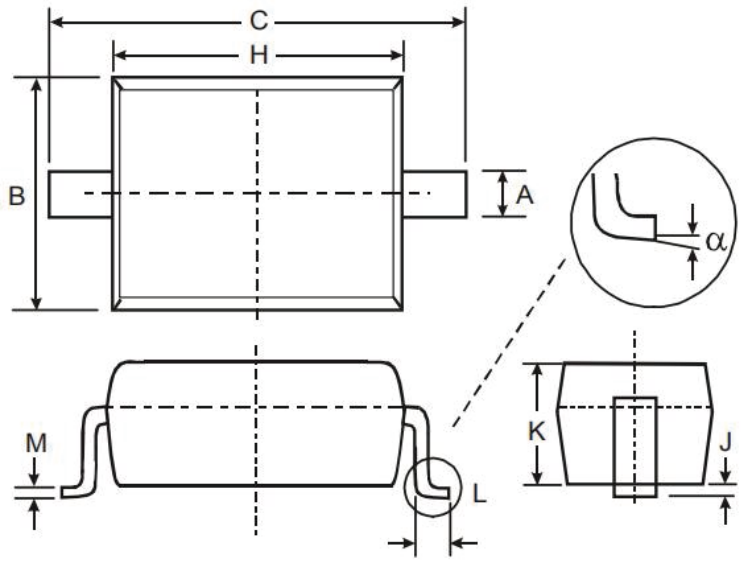






Package Outline Dimensions

SOD323



SYMBOL	MILLIMETERS	
	MIN	MAX
A	0.25	0.35
B	1.20	1.40
C	2.40	2.70
H	1.60	1.80
J	0.01	0.15
K	0.80	1.00
L	0.20	0.40
M	0.08	0.15
α	0°	8°

Soldering Footprint (mm)