

Features

- Peak Forward Current: I_{FM} = 1A
- Power Dissipation of 250mW

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
NSR0320MW2T1G	SOD-323	SJ	3000



Maximum Ratings (Ta=25°C unless otherwise noted)

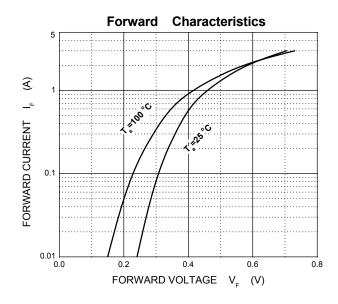
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	20	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Rectified Output Current	Io	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	9	А
Repetitive Peak Forward Current	I _{FRM}	1.5	А
Power Dissipation	Po	250	mW
Thermal Resistance Junction to Ambient	R _{0JA}	200	°C/W
OperationJunction temperature Range	Тл	-40~+125	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

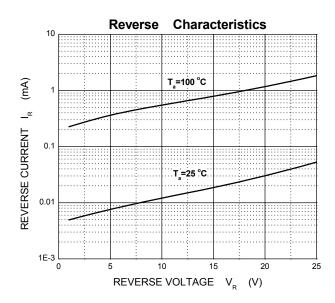
Electrical Characteristics (Ta=25°C unless otherwise specified)

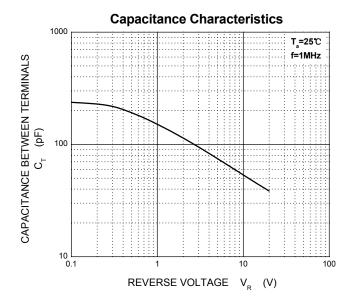
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA	20		V
Reverse voltage leakage current	I _R	V _R =20V		1	mA
Forward voltage	V _F	I _F =1A I _F =3A		0.45 0.75	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF

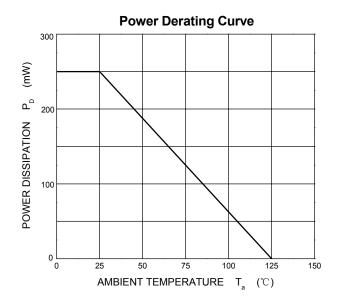


Typical Characteristics

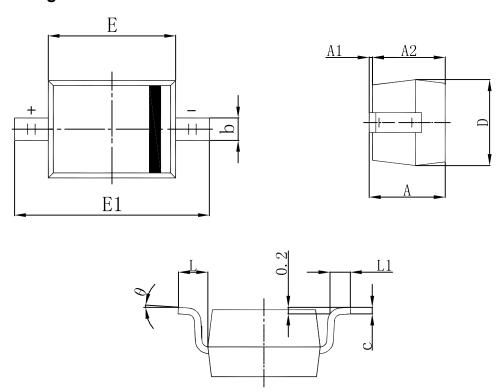








SOD-323 Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
А		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
Е	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
Ĺ	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

NSR0320MW2T1G SCHOTTKY BARRIER DIODE

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