# NSR0320MW2T1

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

# **Schottky Barrier Diodes**

These Schottky barrier diodes are designed for high current, handling capability, and low forward voltage performance.

## Features

- Low Forward Voltage 0.24 Volts (Typ) @  $I_F = 10 \text{ mAdc}$
- High Current Capability
- ESD Rating Human Body Model: CLASS 3B – Machine Model: C
- Pb-Free Packages are Available

## MAXIMUM RATINGS (T<sub>J</sub> = 125°C unless otherwise noted)

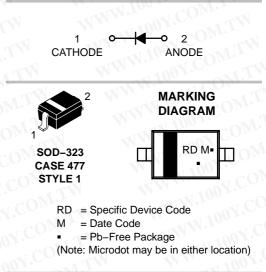
Rating	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	20	Vdc
Peak Revese Voltage	V <sub>RM</sub>	23	V
Forward Power Dissipation @ $T_A = 25^{\circ}C$ Derate above 25°C	P <sub>F</sub>	200 2.0	mW mW/°C
Forward Current (DC) Continuous	ON TIF	1 1 1	A
Forward Current t = 8.3 ms Half Sinewave		5	A
Junction Temperature	TJ	125 Max 🕥	°C
Storage Temperature Range	T <sub>stg</sub>	<ul> <li>-55 to +150</li> </ul>	°C

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

## **ON Semiconductor®**

http://onsemi.com

# HIGH CURRENT SCHOTTKY BARRIER DIODE



## **ORDERING INFORMATION**

Device	Package	Shipping†
NSR0320MW2T1	SOD-323	3000/Tape & Reel
NSR0320MW2T1G	SOD-323 (Pb-Free)	3000/Tape & Reel
NSR0320MW2T3G	SOD-323 (Pb-Free)	10,000/Tape & Reel

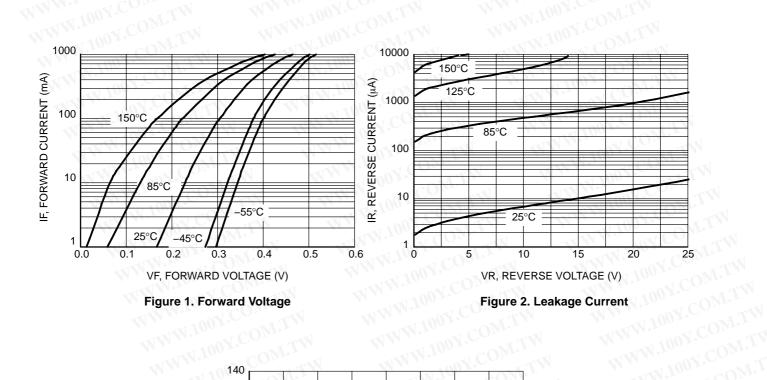
+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

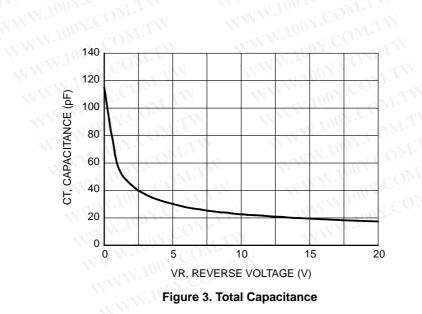
# WWW.100Y.COM.TW NSR0320MW2T1

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WW.IU	ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C unless otherwise noted)	5

ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C unless otherwise noted)			Http://www.100y.com.tw			
Symbol	Min	Тур	Max	Unit		
CT	. VIII	25	29	pF		
IR	V.	10	50	μAdc		
I <sub>R</sub>	N. 100	200	300	μΑ		
I <sub>R</sub>	W-100	450	1000	μΑ		
V <sub>F</sub>	10	0.24	0.27	Vdc		
V <sub>F</sub>		0.30	0.35	Vdc		
V <sub>F</sub>	NNT.	0.45	0.50	Vdc		
	Symbol           C <sub>T</sub> I <sub>R</sub> I <sub>R</sub> V <sub>F</sub> V <sub>F</sub>	SymbolMin $C_T$ - $I_R$ - $I_R$ - $I_R$ - $V_F$ - $V_F$ -	$\begin{tabular}{ c c c c c } \hline Symbol & Min & Typ \\ \hline C_T & - & 25 \\ \hline l_R & - & 10 \\ \hline l_R & - & 200 \\ \hline l_R & - & 450 \\ \hline V_F & - & 0.24 \\ \hline V_F & - & 0.30 \\ \hline \end{tabular}$	Symbol         Min         Typ         Max           C <sub>T</sub> -         25         29           I <sub>R</sub> -         10         50           I <sub>R</sub> -         200         300           I <sub>R</sub> -         450         1000           V <sub>F</sub> -         0.24         0.27           V <sub>F</sub> -         0.30         0.35		





# .100Y.COM.TW **NSR0320MW2T1**

# WWW.100Y.COM PACKAGE DIMENSIONS

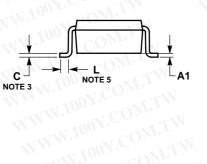
SOD-323 CASE 477-02 ISSUE G

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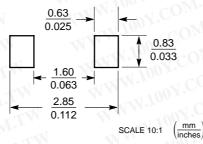
NOTES

- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS. LEAD THICKNESS SPECIFIED PER L/F DRAWING WITH SOLDER PLATING. 3.
- DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. DIMENSION L IS MEASURED FROM END OF 4.
- 5 RADIUS.

	MILLIMETERS			INCHES			
DIM	MIN	NOM	MAX	MIN	NOM	MAX	
Α	0.80	0.90	1.00	0.031	0.035	0.040	
A1	0.00	0.05	0.10	0.000	0.002	0.004	
A3	0.15 REF			0.006 REF			
b	0.25	0.32	0.4	0.010	0.012	0.016	
С	0.089	0.12	0.177	0.003	0.005	0.007	
D	1.60	1.70	1.80	0.062	0.066	0.070	
Е	1.15	1.25	1.35	0.045	0.049	0.053	
L	0.08	2		0.003			
HE	2.30	2.50	2.70	0.090	0.098	0.105	

STYLE 1: PIN 1. CATHODE 2. ANODE





WWW.100 \*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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