# **Schottky Barrier Diode**

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

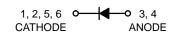
- Low Forward Voltage 0.35 Volts (Typ) @  $I_F = 10 \text{ mAdc}$
- High Current Capability



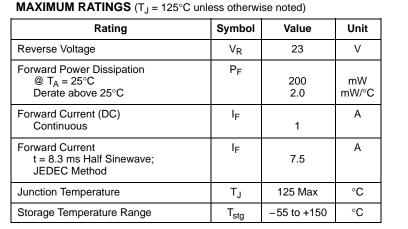
### ON Semiconductor<sup>®</sup>

http://onsemi.com

## HIGH CURRENT SCHOTTKY BARRIER DIODE



MARKING DIAGRAM





RD = Specific Device Code D = Date Code

#### **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>	
NSR0320XV6T1	SOT-563	3000/Tape & Reel	

<sup>+</sup>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.

## **ELECTRICAL CHARACTERISTICS** ( $T_A = 25^{\circ}C$ unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
Total Capacitance (V <sub>R</sub> = 5.0 V, f = 1.0 MHz)	CT	-	30	35	pF
Reverse Leakage (V <sub>R</sub> = 15 V)	I <sub>R</sub>	-	10	50	μAdc
Forward Voltage (I <sub>F</sub> = 10 mAdc)	V <sub>F</sub>	-	0.24	0.27	Vdc
Forward Voltage (I <sub>F</sub> = 100 mAdc)	V <sub>F</sub>	-	0.30	0.35	Vdc
Forward Voltage (I <sub>F</sub> = 900 mAdc)	VF	-	0.45	0.50	Vdc

#### PACKAGE DIMENSIONS

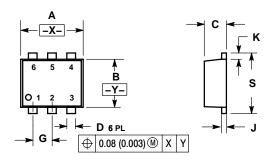
#### SOT-563, 6 LEAD PLASTIC PACKAGE CASE 463A-01 **ISSUE B**

NOTES:

NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. 2. CONTROLLING DIMENSION: MILLIMETERS 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

	MILLIN	IETERS	INCHES		
DIM	MIN	MAX	MIN	MAX	
Α	1.50	1.70	0.059	0.067	
В	1.10	1.30	0.043	0.051	
С	0.50	0.60	0.020	0.024	
D	0.17	0.27	0.007	0.011	
G	0.50 BSC		0.020 BSC		
J	0.08	0.18	0.003	0.007	
Κ	0.10	0.30	0.004	0.012	
S	1.50	1 70	0.059	0.067	

STYLE 5: PIN 1. CATHODE 2. CATHODE 3. ANODE 4. ANODE 5. CATHODE 6. CATHODE



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