NSVR351SDSA3

Schottky Barrier Diode for Mixer and Detector

Description

This schottky barrier diode is designed to realize compact and efficient designs. Two schottky barrier diodes are incorporated in one SC–59 package. The use of dual schottky barrier diodes can reduce both system cost and board space. This schottky barrier diode is AEC–Q101 qualified and PPAP capable for automotive applications.

Features

- Series Connection of 2 Elements in a Small-Sized Package
- Small Interterminal Capacitance (C = 0.69 pF typ)
- Small Forward Voltage ($V_F = 0.23 \text{ V max}$)
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant
- AEC-Q101 Qualified and PPAP Capable

Typical Applications

• Level Detector for Radio

Specifications

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _{RM}	5	V
Forward Current	١ _F	30	mA
Operating Junction and Storage Temperature	$T_{J,}T_{Stg}$	-55 to +125	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



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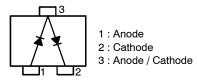
www.onsemi.com

5 V, 30 mA C = 0.69 pF typ Shottky Barrier Diode



SC-59 / CP3 CASE 318BJ

ELECTRICAL CONNECTION



MARKING DIAGRAM



ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

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ELECTRICAL CHARACTERISTICS (Ta = 25°C (Note 1))

			Value			
Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V _F	Forward Voltage	I _F = 1 mA	-	-	0.23	V
١ _F	Forward Current	V _F = 0.5 V	30	-	-	mA
I _R	Reverse Current	V _R = 0.5 V	-	-	25	μA
С	Interterminal Capacitance	$V_{R} = 0.2 V$, f = 1 MHz	-	0.69	0.9	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions. 1. The specifications shown above are for each individual diode.

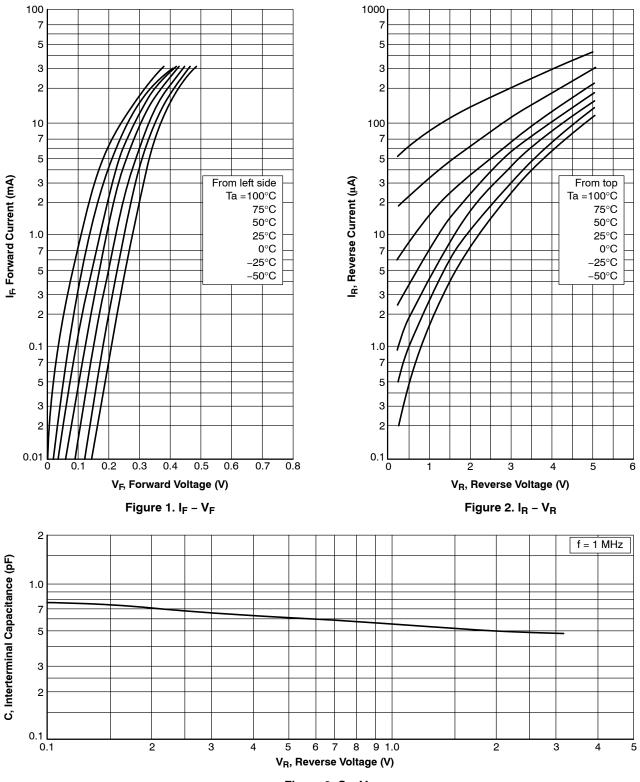
ORDERING INFORMATION

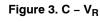
Device Order Number	Marking	Package Type	Shipping [†]
NSVR351SDSA3T1G	СН	SC-59 / CP3 (Pb-Free / Halogen Free)	3,000 / Tape & Reel

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

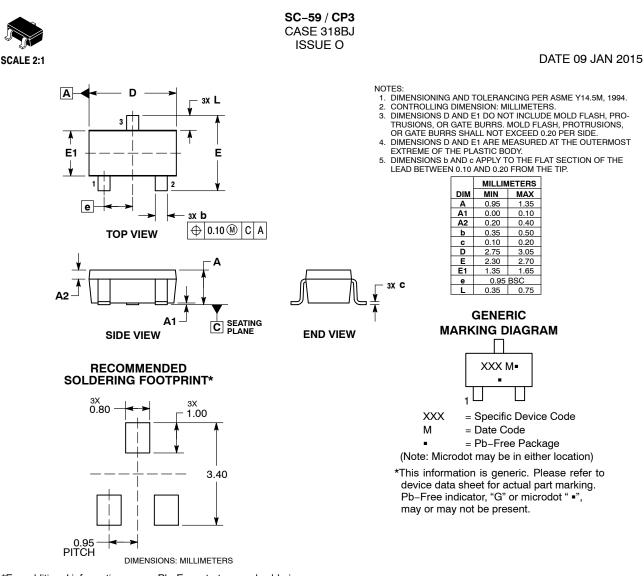
NSVR351SDSA3

CHARACTERISTICS









*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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SC-59 / CP3

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