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.

- 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	I _F	30	mA
Operating Junction and Storage Temperature	$T_{J_i}T_{Stg}$	-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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5 V, 30 mA C = 0.69 pF typ **Shottky Barrier Diode**



SC-59 / CP3 CASE 318BJ

ELECTRICAL CONNECTION



- 1: Anode
- 2: Cathode
- 3: Anode / Cathode

MARKING DIAGRAM



ORDERING INFORMATION

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

NSVR351SDSA3

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

			Value			
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _F	Forward Voltage	I _F = 1 mA	-	-	0.23	V
I _F	Forward Current	V _F = 0.5 V	30	-	-	mA
I _R	Reverse Current	V _R = 0.5 V	-	-	25	μΑ
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.

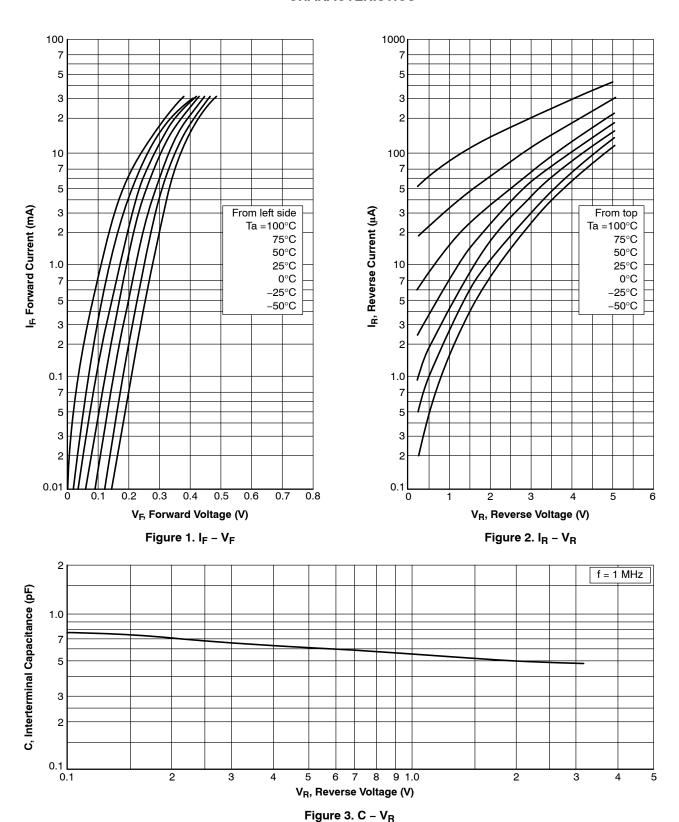
ORDERING INFORMATION

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



MECHANICAL CASE OUTLINE

3X L

зх b

⊕ 0.10 M C A

C SEATING PLANE

Α

E1

е





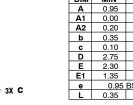
SC-59 / CP3 CASE 318BJ **ISSUE O**

DATE 09 JAN 2015

NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER SIDE.
 4. DIMENSIONS D AND E1 ARE MEASURED AT THE OUTERMOST
- EXTREME OF THE PLASTIC BODY.
 DIMENSIONS 6 AND c APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 AND 0.20 FROM THE TIP.

	MILLIMETERS		
DIM	MIN	MAX	
Α	0.95	1.35	
A1	0.00	0.10	
A2	0.20	0.20 0.40	
b	0.35	0.50	
С	0.10	0.20	
D	2.75	3.05	
E	2.30	2.70	
E1	1.35	1.35 1.65	
е	0.95 BSC		
_	0.35 0.75		



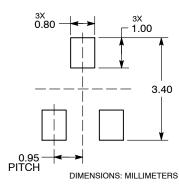
END VIEW

RECOMMENDED **SOLDERING FOOTPRINT***

SIDE VIEW

Δ1

TOP VIEW



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

GENERIC MARKING DIAGRAM



XXX = Specific Device Code

Μ = Date Code

= Pb-Free Package

(Note: Microdot may be in either location) *This information is generic. Please refer to

device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

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