

NSVP264SDSF3

Advance Information PIN Diode Dual series PIN Diode for VHF, UHF and AGC

This PIN diode is designed to realize compact and efficient designs. Two PIN diodes are incorporated in one SC-70 package. The use of dual PIN diodes can reduce both system cost and board space. This PIN diode is AEC-Q101 qualified and PPAP capable for automotive applications.

Features

- Series connection of 2 elements in a small-size package
- Small Interterminal Capacitance ($C = 0.23 \text{ pF typ}$)
- Small Forward Series Resistance ($r_s = 2.5 \Omega \text{ typ}$)
- Pb-Free, Halogen Free and RoHS Compliance
- MCP3 package is pin-compatible with SC-70
- AEC-Q101 qualified and PPAP capable

Typical Applications

- Auto Gain Control for Radio

SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS at $T_a = 25^\circ\text{C}$ (Note 1)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	50	V
Forward Current	I_F	50	mA
Allowable Power Dissipation	P	100	mW
Operating Junction and Storage Temperature	T_J, T_{stg}	-55 to +125	°C

Note 1 : 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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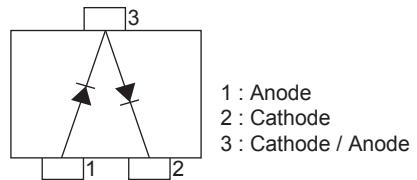
www.onsemi.com

50 V, 50 mA

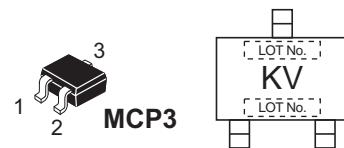
$r_s = 2.5 \Omega \text{ typ}$

PIN Diode

ELECTRICAL CONNECTION



MARKING



ORDERING INFORMATION

See detailed ordering and shipping information on page 5 of this data sheet

This document contains information on a new product. Specifications and information herein are subject to change without notice.

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ELECTRICAL CHARACTERISTICS at $T_a = 25^\circ\text{C}$ (Note 2)

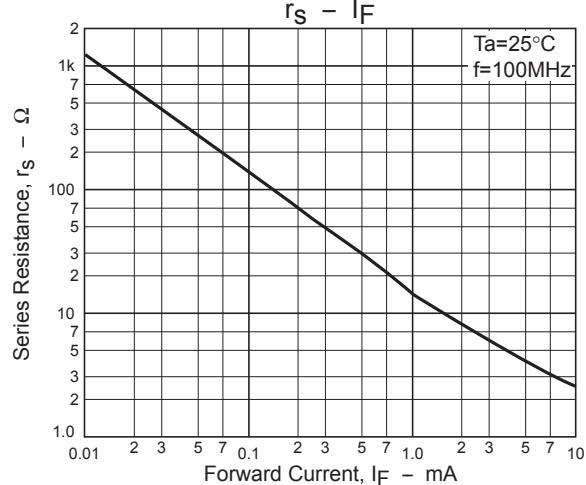
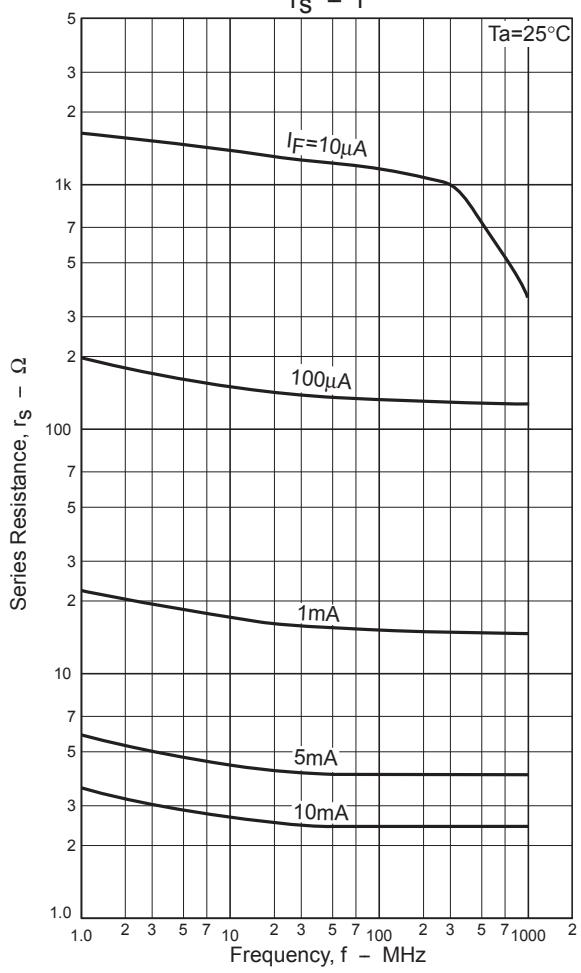
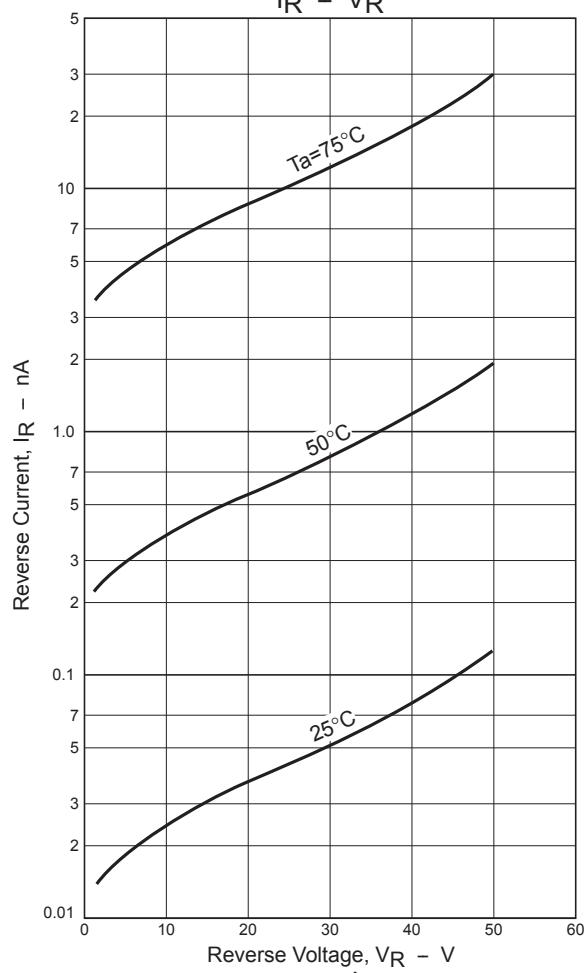
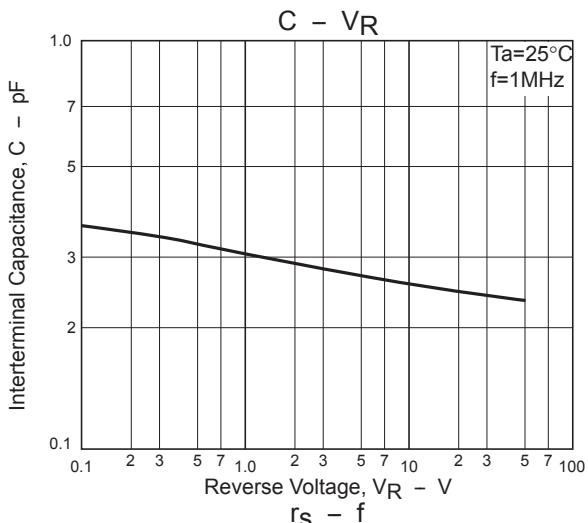
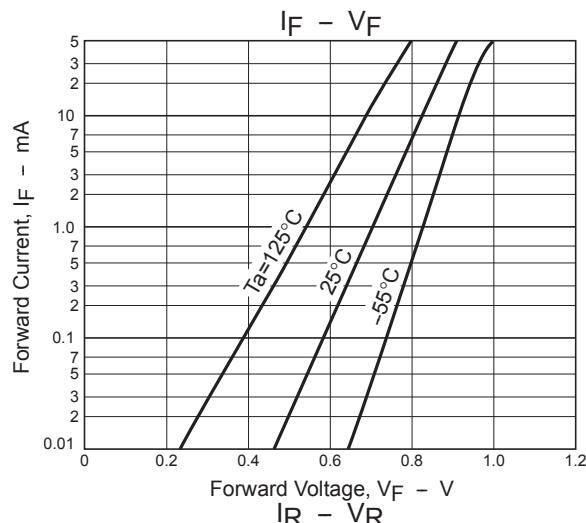
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R = 10 \mu\text{A}$	50			V
Reverse Current	I_R	$V_R = 50 \text{ V}$			0.1	μA
Forward Voltage	V_F	$I_F = 50 \text{ mA}$		0.91	0.95	V
Interterminal Capacitance	C	$V_R = 50 \text{ V}, f = 1 \text{ MHz}$		0.23	0.4	pF
Series Resistance	r_s	$I_F = 5 \text{ mA}, f = 100 \text{ MHz}$		4.0	8.0	Ω
		$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$		2.5	4.5	Ω

Note 2 : 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.

Note 3 : The specifications shown above are for each individual diode.

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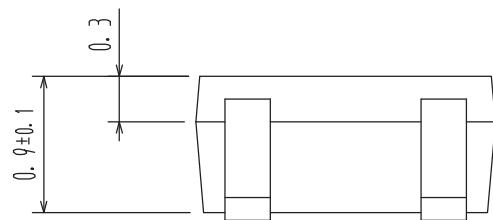
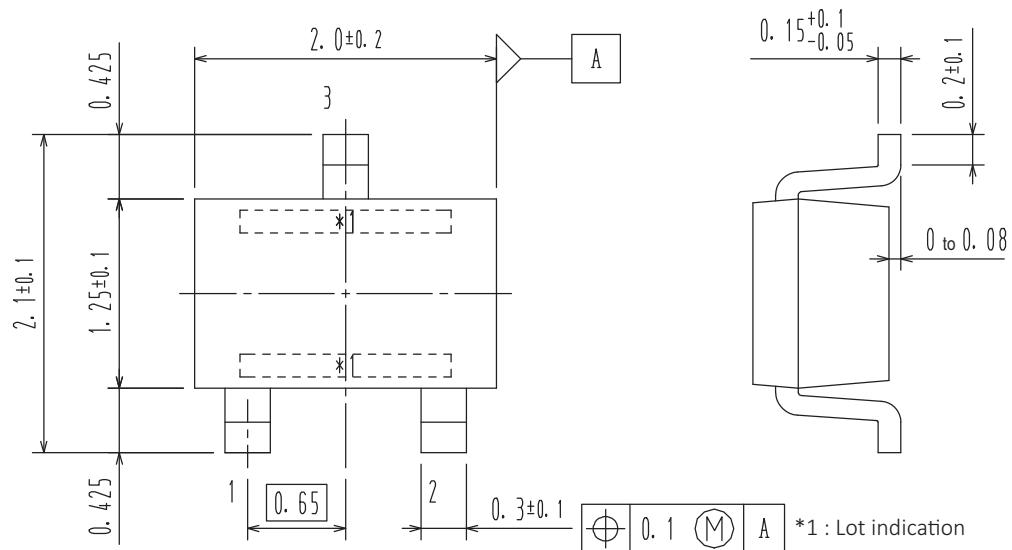
PACKAGE DIMENSIONS

unit : mm

SC-70 / MCP3

CASE 419AJ

ISSUE O

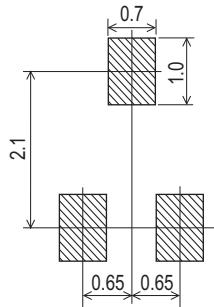


1: Anode

2: Cathode

3: Cathode / Anode

RECOMMENDED SOLDERING FOOTPRINT



NSVP264SDSF3

ORDERING INFORMATION

Device	Marking	Package	Shipping
NSVP264SDSF3T1G	KV	SC-70 / MCP3 (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. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

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