ON Semiconductor

Is Now

Onsemi

To learn more about onsemi[™], please visit our website at <u>www.onsemi.com</u>

onsemi and ONSEMI. and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. onsemi reserves the right to make changes at any time to any products or information herein, without notice. The information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product factures, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi products, including compliance with all laws, regulations and asfety requirements or standards, regardless of any support or applications information provided by onsemi. "Typical" parameters which may be provided in onsemi data sheets and/or by customer's technical experts. onsemi products and actal performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. onsemi products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use onsemi products for any such unintended or unauthorized application, Buyer shall indemnify and hold onsemi and its officers, employees, subsidiari

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 pF typ)
- Small Forward Series Resistance ($r_s = 2.5 \Omega$ 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 Ta = 25°C (Note 1)

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	50	V
Forward Current	١F	50	mA
Allowable Power Dissipation	Р	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.



ON Semiconductor®

www.onsemi.com

50 V, 50 mA r_S = 2.5 Ω typ PIN Diode

ELECTRICAL CONNECTION



1 : Anode 2 : Cathode 3 : Cathode / Anode



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.

ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

Parameter	Symbol	Conditions	Value			Lipit
	Symbol	Conditions	min	typ	max	Unit
Reverse Voltage	V _R	I _R = 10 μA	50			V
Reverse Current	IR	V _R = 50 V			0.1	μA
Forward Voltage	VF	I _F = 50 mA		0.91	0.95	V
Interterminal Capacitance	С	V _R = 50 V, f = 1 MHz		0.23	0.4	pF
Series Resistance r _s	r _s	I _F = 5 mA, f = 100 MHz		4.0	8.0	Ω
		I _F = 10 mA, f = 100 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.





www.onsemi.com 3

PACKAGE DIMENSIONS

unit : mm

SC-70 / MCP3

CASE 419AJ ISSUE O





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

RECOMMENDED SOLDERING FOOTPRINT



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

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typical" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights or the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any EDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or adverse intended or implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, direct

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for PIN Diodes category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below :

MA45471 MA4SPS502 APD2220-000 APD0810-000 MA4GP907 MA4L032-186 MA4L401-30 MA4P606-258 MA4P7435NM-1091T MA4PK2000 MA4PK2001 MA4PK2004 MADP-007167-12250T MADP-030025-13140P MA4PBL027 MA4AGFCP910 MA4P7101F-1072T MA4L022-30 MA47047-54 BAR 89-02LRH E6327 UM7108B UM9701 1SV308,L3F UM9301SM 5082-3077 GC4723-42 MA4L011-1088 MSW2001-200 SMP1321-000 M17X1008 UM4010SM UM6002B UM7006A UM7006B UM7108C GC4742-42 MADP-000015-000030 MGPN1503-C01A UMX512 LXP1000-23-2 LXP1004-23-2 MPP4201-206 LXP1002-23-0 LXP1004-23-0 MPP4202-206 MPP4205-206 SMP1321-011LF MA4L021-1056 MSW2031-203 MLP7120-11