# Product Overview

## NSVP249SDSF3: PIN Diode, Dual series PIN Diode for VHF, UHF and AGC

For complete documentation, see the data sheet.

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

- AEC-Q101 qualified and PPAP capable
- Pb-Free, Halogen Free and RoHS Compliance
- Series connection of 2 elements in a small-size package
- MCP3 package is pin-compatible with SC-70
- Small Interterminal Capacitance (C = 0.23 pF typ)
- Small Forward Series Resistance (rs = 4.5 Ω max)

### Benefits

- Suitable for Automotive Applications
- Environmental Consideration
- Improving the mounting efficiency greatly.
- Substitution from SC-70 is possible
- Suitable for Level detector
- Suitable for UHF band

### Applications

- Auto Gain Control for Automotive Radio Antenna

### End Products

- Automotive Antenna
- Automotive Radio Tuner

## Part Electrical Specifications

| Product | Compliance | Status | Type | Configuration | $V_R$ Min (V) | $V_F$ Max (V) | $I_R$ Max (μA) | $I_F$ Max (A) | $C_j$ (pF) | $C_{t1}$ Min | $C_{t1}$ Max | Q Min | $R_S$ Max (Ω) | Package Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NSVP249SDSF3T1G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | PIN | Dual Series | 50 | 0.92 | 0.1 | 0.05 | 0.23 | | | | 4.5 | SC-70 / MCP3 |

**For more information please contact your local sales support at www.onsemi.com.**

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