



## Product Overview

### PACDN009: ESD Protection Array

For complete documentation, see the data sheet

#### Product Description

The PACDN009 is a diode array designed to provide 5 channels of ESD protection for electronic components or sub-systems. Each channel consists of a pair of diodes which steers an ESD current pulse to either the positive (VP) or negative (VN) supply. The PACDN009 protects against ESD pulses up to  $\pm 15\text{kV}$  Human Body Model (100 pF capacitor discharging through a 1.5K resistor), and  $\pm 8\text{kV}$  contact discharge, per International Standard IEC 61000-4-2. This device is particularly well-suited for portable electronics (e.g., cellular phones, PDAs, notebook computers) because of its small package footprint, high ESD protection level, and low loading capacitance. It is also suitable for protecting video output lines and I/O ports in computers and peripherals and is ideal for a wide range of consumer electronics products. The PACDN009 is supplied in an 8-lead MSOP package and is available with RoHS compliant lead-free finishing.

#### Features

- Five channels of ESD protection at  $\pm 8\text{kV}$  contact,  $\pm 15\text{kV}$  air ESD protection per channel (IEC 61000-4-2 standard)
- $\pm 15\text{kV}$  of ESD protection per channel (HBM)
- Low loading capacitance (3pF typical)
- Low leakage current is ideal for battery-powered devices

#### Applications

- Consumer electronic products

#### End Products

- Digital TV, Set Top Box, PC/Notebook, Gaming

#### Part Electrical Specifications

| Product    | Compliance             | Status | Interface | Number of Lines | Direction      | C Max (pF) | $V_{(BR)}$ Min (V) | $V_{RWM}$ Max (V) | $I_R$ Max (uA) | $P_{PK}$ Max (W) | Package Type |
|------------|------------------------|--------|-----------|-----------------|----------------|------------|--------------------|-------------------|----------------|------------------|--------------|
| PACDN009MR | Pb-free<br>Halide free | Active | VGA       | 5               | Unidirectional | 5          | -                  | 5.5               | 1              | 0.2              | Micro8™      |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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