



## Product Overview

### PACDN006: ESD Protection Array

For complete documentation, see the data sheet

#### Product Description

The PACDN006 is a diode array designed to provide six channels of ESD protection for electronic components or subsystems. Each channel consists of a pair of diodes that steer an ESD current pulse to either the positive (VP) or negative (VN) supply. The PACDN006 protects against ESD pulses up to:  $\pm 8\text{kV}$  contact discharge, per International Standard IEC 61000-4-2 and  $\pm 15\text{kV}$  per Human Body Model MIL-STD-883, Method 3015 (based on a 100 pF capacitor discharging through a 1.5K resistor). 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 PACDN006 is available with RoHS compliant lead-free finishing.

#### Features

- Six 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
PACDN006MR	Pb-free Halide free	Active	VGA	6	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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