

## Product Overview

### PACDN004: ESD Protection Array

For complete documentation, see the data sheet

#### Product Description

The PACDN004 is a diode array designed to provide two channels of ESD protection for electronic components or sub-systems. Each channel consists of a pair of diodes which steers the ESD current pulse either to the positive (VP) or negative (VN) supply. The PACDN004 will protect against ESD pulses up to  $\pm 15\text{kV}$  Human Body Model, and  $\pm 8\text{kV}$  contact discharge per International Standard IEC 61000-4-2. This device has identical characteristics as the PACDN006 (6-channel array). They can be used together in order to provide a larger number of protected inputs if required. This device is particularly well-suited for a wide range of 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. The PACDN004 is available with RoHS compliant lead-free finishing.

#### Features

- Two channels of ESD protection at  $\pm 8\text{kV}$  contact and  $\pm 15$  air discharge
- $\pm 15\text{kV}$  of ESD protection per channel (HBM)
- Low loading capacitance of 3 pF 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
PACDN004SR	AEC Qualified Pb-free Halide free	Active	VGA	2	Unidirectional	5	-	5.5	1	0.225	SOT-123-4
SZPACDN004SR	AEC Qualified PPAP Capable Pb-free Halide free	Active	VGA	2	Unidirectional	5	-	5.5	1	0.225	SOT-143-4

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