CM1214A

1 and 2-Channel AC Signal ESD Protector

Product Description

The CM1214A ESD protector is used to protect bipolar signal lines against electrostatic discharge (ESD). The CM1214A allows operation in high−speed environments with signals levels up to 5 V.

The CM1214A comes in two versions:

The CM1214A−01SO is a single channel ESD protector and is available in a 3−lead SOT23−3 package.

The CM1214A−02MR is a dual channel ESD protector and is available in an 8−lead MSOP−8 package.

The low sub−1 pF loading capacitance makes the CM1214A−01SO ideal for protecting high−speed interfaces including RF switches and amplifiers.

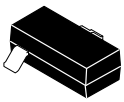
The CM1214A−02MR is ideal for dual high−speed signal pairs used in Gigabit Ethernet, ADSL, etc. The CM1214A−02MR can also be used for higher transmit voltage applications by connecting the two channels in series.

Features

- Single Channel ESD Protection for an AC Signal Up To 5 V for 0.25 W Transmit Power
- Connects Two Channels in Series for Signals Up To 10 V (1 W transmit power)
- 8 kV ESD Protection Per IEC 61000−4−2 Contact Discharge
- Sub−1pF Loading Capacitance
- Minimal Variation with Voltage and Temperature
- Each I/O Pin Can Withstand Over 1000 ESD Strikes*
- SOT23−3 and MSOP−8 Packages
- These Devices are Pb−Free and are RoHS Compliant

Applications

- RF Switch and Amplifier Protection
- RF Modules and RF IC Protection
- d Oard pruleion



SCALE 4:1

SOT 23 (TO 236) 2.90x1.30x1.00 1.90P
CASE 318
ISSUE AU

DATE 14 AUG 2024

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STYLE 6:
PIN 1. BASE
2. EMITTER
3. COLLECTOR

STYLE 7:
PIN 1. EMITTER
2. BASE
3. COLLECTOR

STYLE 8:
PIN 1. ANODE
2. NO CONNECTION
3. CATHODE

STYLE 9:
PIN 1. ANODE
2. ANODE
3. CATHODE

STYLE 10:
PIN 1. DRAIN
2. SOURCE
3. GATE

STYLE 11:
PIN 1. ANODE
2. CATHODE
3. CATHODE−ANODE

STYLE 12:
PIN 1. CATHODE
2. CATHODE
3. ANODE

STYLE 13:
PIN 1. SOURCE
2. DRAIN
3. GATE

STYLE 14:
PIN 1. CATHODE
2. GATE
3. ANODE

STYLE 15:
PIN 1. GATE
2. CATHODE
3. ANODE

STYLE 16:
PIN 1. ANODE
2. CATHODE
3. CATHODE

STYLE 17:
PIN 1. NO CONNECTION
2. ANODE
3. CATHODE

STYLE 18:
PIN 1. NO CONNECTION
2. CATHODE
3. ANODE

STYLE 19:
PIN 1. CATHODE
2. ANODE
3. CATHODE−ANODE

STYLE 22:
PIN 1. RETURN
2. OUTPUT
3. INPUT

STYLE 23:
PIN 1. ANODE
2. ANODE
3. CATHODE
3.

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information, p
of any product
and applicatio