

Product Overview

CM1214A: AC Signal ESD Protectors

For complete documentation, see the data sheet.

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 low sub-1pF 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)

Applications

- RF modules and RF IC protection, High-speed AC signals for Gbit ethernet

End Products

- Wireless handsets, Netbook

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 (μ A)	P_{PK} Max (W)	Package Type
CM1214A-01SO	Pb-free Halide free	Active	Ethernet (10/100, Gigabit)	2	Bidirectional	0.8	-	5.5	1	0.225	SOT-23-3
CM1214A-02MR	Pb-free Halide free	Active	Ethernet (10/100, Gigabit)	4	Bidirectional	0.8	-	5.5	1	0.4	Micro8™
SZCM1214A-01SO	AEC Qualified PPAP Capable Pb-free Halide free	Active	Ethernet (10/100, Gigabit)	2	Bidirectional	0.8	-	5.5	1	0.225	SOT-23-3

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

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