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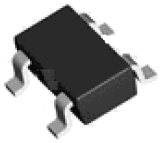
CDA4S14L

Voltage: 8 Volts
Current: 50 mA

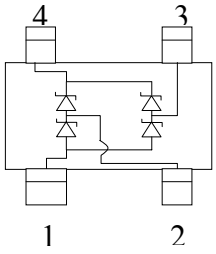


Package (SOT-143)
Marking " CDA4 "

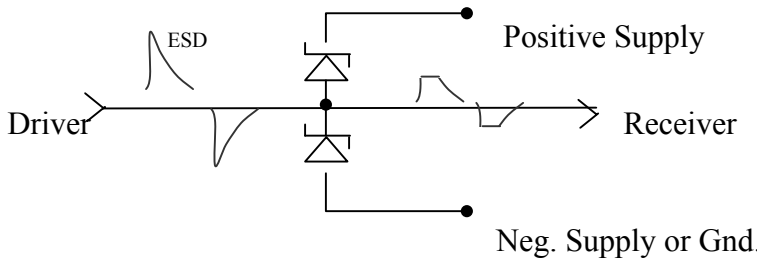
Feature

This diode network is designed to provide two channels for active termination of high-speed data signals to eliminate signal undershoot and overshoot. The network has the added benefit of acting to suppress any ESD voltage events by shunting the energy to ground assuring maximum reliability of electronic systems in the field. Trigger levels are defined by the positive and negative bias levels set by the user.

Schematic



Application



Absolute Maximum Ratings: (Ta = 25°C)

Symbol	Parameter	Value	Units
T_J	Operating Temperature	-40 to +85	^{0}C
W_V	Supply Voltage	8	V
I_F	DC Forward Current	50	mA
P_O	Total Power	225	mW

* These ratings are limited values above which degridation of the product performance may occur

Electrical Ratings: (Ta = 25°C)

Symbol	Characteristic	Min	Max	Units	Test Condition
V_F	Forward voltage	0.6	0.95	V	I_F = 20 ma
V_R	Reverse breakdown voltage	9.5	11	V	I_R = 1 ma
I_L	Leakage current	$\pm$ 0.1	$\pm$ 2.0	uA	@ 8v
C_T	Capacitance	1.0	5.0	pF	@ 1Mhz
V_{ESD}	Channel clamp voltage	-	$\pm$ 13	V	8kV HBM
V_{PV}	Peak ESD voltage capability		16	kV	HBM