

## CDA4S14L

Voltage: 8 Volts  
Current: 50 mA

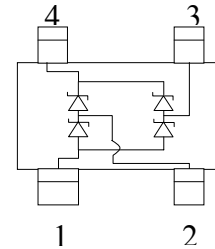


Package (SOT-143)  
Marking " CDA4 "

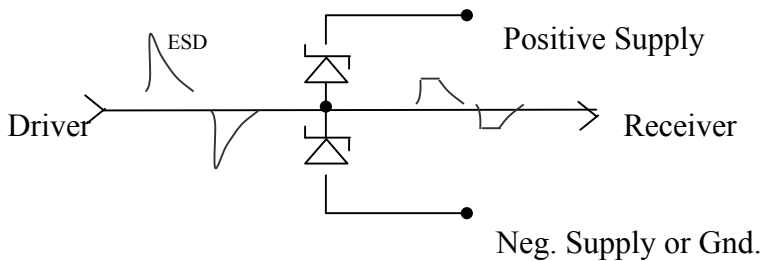
### Feature

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: (  $T_a = 25^\circ\text{C}$  )

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

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

Electrical Ratings: (  $T_a = 25^\circ\text{C}$  )

Symbol	Characteristic	Min	Max	Units	Test Condition
$V_F$	Forward voltage	0.6	0.95	V	$I_F = 20\text{ ma}$
$V_R$	Reverse breakdown voltage	9.5	11	V	$I_R = 1\text{ ma}$
$I_L$	Leakage current	$\pm 0.1$	$\pm 2.0$	$\mu\text{A}$	@ 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