

# CDA8S03L

Voltage: 8 Volts Current: 50 mA

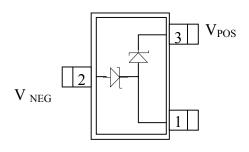
Package (SOT-23)

Marking "CDA8 "

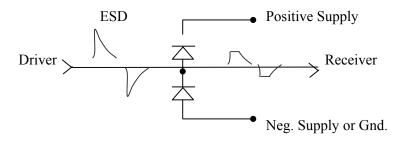
#### **Feature**

This diode network is designed to provide an integrated solution for the active termination of a single high-speed data signal 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:  $(Ta = 25^{\circ}C)$ 

Symbol	Parameter	Value	Units
$T_{OP}$	Operating temperature	-40 to +85	<sup>0</sup> C
$V_{S}$	Supply voltage (Vp ~ Vn)	8	V
$I_{\mathrm{F}}$	Continuous forward current *	50	mA
$P_{O}$	Total power	1	W

<sup>\*</sup> One diode conducting.

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

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Symbol	Characteristic	Min	Max	Units	Test Condition
$V_{\mathrm{F}}$	Forward voltage	0.6	0.95	V	$I_F = 25 \text{ ma}$
$V_R$	Reverse breakdown voltage	9.5	11	V	$I_R = 1 \text{ ma}$
$I_{\mathrm{L}}$	Leakage current	<u>+</u> 0.1	<u>+</u> 2.0	uA	8v
$C_{\mathrm{T}}$	Capacitance	1.0	5.0	pF	@ 1Mhz
$ m V_{ESD}$	Channel clamp voltage	-	<u>+</u> 10	V	8kV HBM
$V_{PV}$	Peak ESD voltage capability		16	kV	HBM

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