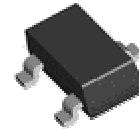


CDA8S03L

Voltage: 8 Volts
Current: 50 mA

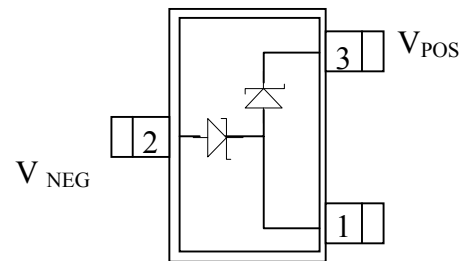


Package (SOT-23)
Marking "CDA8"

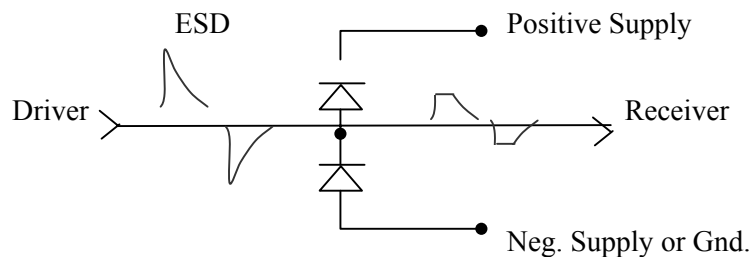
Feature

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

Symbol	Parameter	Value	Units
T_{OP}	Operating temperature	-40 to +85	$^\circ\text{C}$
V_S	Supply voltage ($V_p \sim V_n$)	8	V
I_F	Continuous forward current *	50	mA
P_O	Total power	1	W

* One diode conducting.

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

Symbol	Characteristic	Min	Max	Units	Test Condition
V_F	Forward voltage	0.6	0.95	V	$I_F = 25 \text{ ma}$
V_R	Reverse breakdown voltage	9.5	11	V	$I_R = 1 \text{ ma}$
I_L	Leakage current	± 0.1	± 2.0	μA	8v
C_T	Capacitance	1.0	5.0	pF	@ 1Mhz
V_{ESD}	Channel clamp voltage	-	± 10	V	8kV HBM
V_{PV}	Peak ESD voltage capability		16	kV	HBM