

The COMCHIP CDA series steering diode arrays are designed to protect communication port interfaces. The fast turn-on speed and low capacitance characteristics of this product series make it ideal for protecting high speed communication ports from Electrostatic Discharge (ESD) and Electrical Fast Transient events (EFTs).

Often referred to as a dual rail diode network each network channel offers input signal protection through a series pair of high performance diodes as illustrated in figure 1.

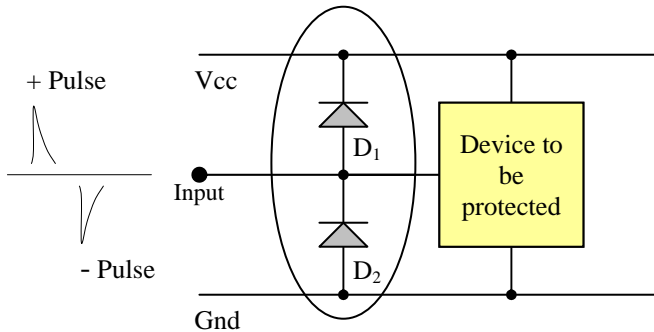


Figure 1

In this configuration a positive ESD event will cause diode D_1 to turn on or conduct. This limits the magnitude of the event voltage to the V_{cc} voltage plus the forward voltage drop of the diode. Likewise a negative ESD event will cause diode D_2 to turn on, limiting the voltage of the negative voltage event to the forward voltage drop of D_2 .

Common applications for the CDA series diode arrays are:

- USB port
- SIM card port
- IEEE 1284 port
- IEEE 1394 port
- Gigabit Ethernet port
- Speaker port
- Differential inputs
- Industrial sensors
- LCD interface
- Hot Swap PCI Bus

Digi-Key P/N	Comchip P/N	Protected Channels
641-1083-2-ND	CDA3S06-G	4
641-1195-2-ND	CDA5Q24-G	18
641-1196-2-ND	CDA6N08-G	6
641-1085-2-ND	CDA8S03-G	1

