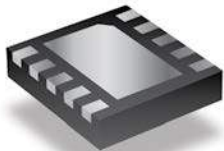


USB 3.0 - ESD & Overcurrent Protection

Solution Products



MF-NSMF200-2



CDDFN10-0506N

Objective

Universal Serial Bus (USB) 3.0 ports provide up to 5 Gbps data transfer rates and 5 V power at up to 900 mA. As a hot-pluggable interface, it typically requires protection against ESD and short circuits. This solution provides this protection.

Solution

- 1 Multifuse[®] PPTC Resettable Fuse: MF-NSMF200-2
- 1 TVS Diode Array: CDDFN10-0506N

Compliance

- USB 3.0
- UL60950
- IEC 61000-4-2 Level 4 (8 kV / 15 kV)

Alternate Recommendations

Other PortNote[®] Solutions:

- USB: USB 2.0 - ESD & Overcurrent Protection

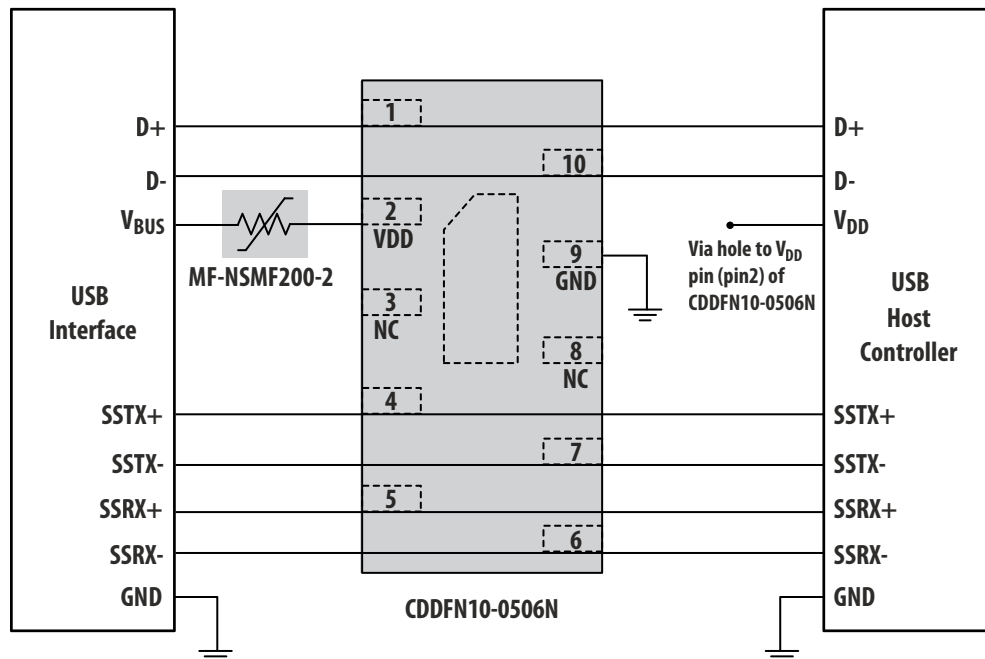
Benefit

This solution provides USB 3.0 ports with protection against ESD and short circuits without impairing the transmission of power or data.

Design Kit



PN-DESIGNKIT-32



The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.