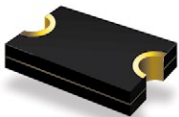


USB 3.0

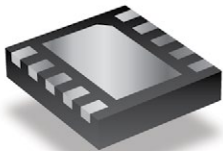
ESD & Overcurrent Protection

Bourns® PortNote® solutions provide protection recommendations for typical port threats.

Solution Products



MF-FSML200/6



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-FSML200/6](#)

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:

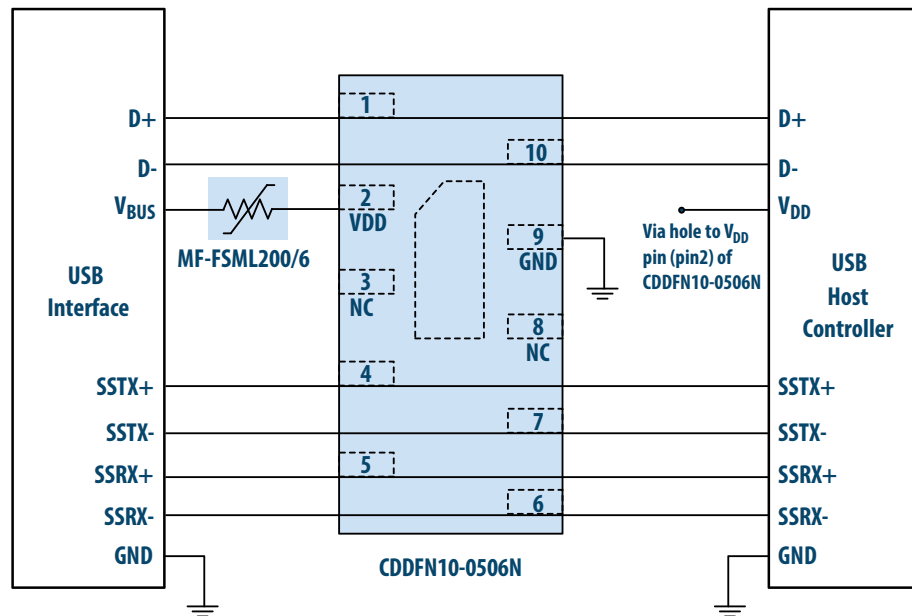
• [USB: USB 2.0 - ESD & Overcurrent Protection](#)

Other Multifuse® PPTC Resettable Fuse Solutions:

• [MF-PSML200/12](#) or [MF-NSML200/12](#)

Benefit

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



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.

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