

# PORTNOTE®

# Li-ion Battery Controller Protection Overcurrent and ESD Protection

#### **Solution Products**





### **Objective**

This solution provides protection for the battery against an overcurrent condition, as well as ESD protection for the control chip. Because of a hot-pluggable interface, it may require protection against ESD, short circuits and faulty equipment.

#### Solution

1 Multifuse\* PPTC Resettable Fuse: MF Strap type (ex. MF-SVS210-0) 3 ChipGuard\* ESD Suppressors: CG0603MLA-5.5ME

## **Compliance**

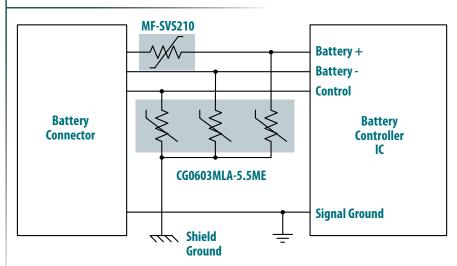
IEC 61000-4-2 ESD Level 4

#### **Alternate Recommendations**

• 1 SinglFuse™ Thin Film Chip Fuse: (ex. SF-0603F500)

#### **Benefit**

This solution provides full protection to battery pack applications within rated limits.



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.

# Design Kit



PN-DESIGNKIT-30

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For more information, go to:

Bourns\* PortNote\* solutions provide protection recommendations for typical port threats.

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