

### PORTNOTE® SOLUTIONS

## **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**

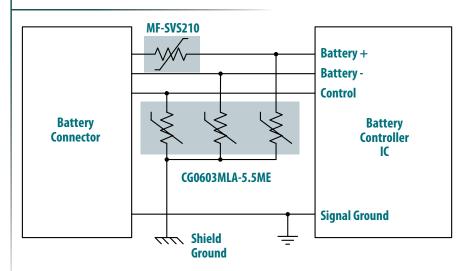
IEC 61000-4-2 ESD Level 4

### **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.



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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# AMEYA360 Components Supply Platform

### **Authorized Distribution Brand:**

























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