

# Li-ion Battery Controller Protection

## Overcurrent and ESD Protection

### Solution Products



MF-SVS210-0



CG0603MLA-5.5ME

### Design Kit



PN-DESIGNKIT-30

### 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<sup>®</sup> PPTC Resettable Fuse:  
MF Strap type (ex. MF-SVS210-0)  
3 ChipGuard<sup>®</sup> ESD Suppressors:  
CG0603MLA-5.5ME

### Compliance

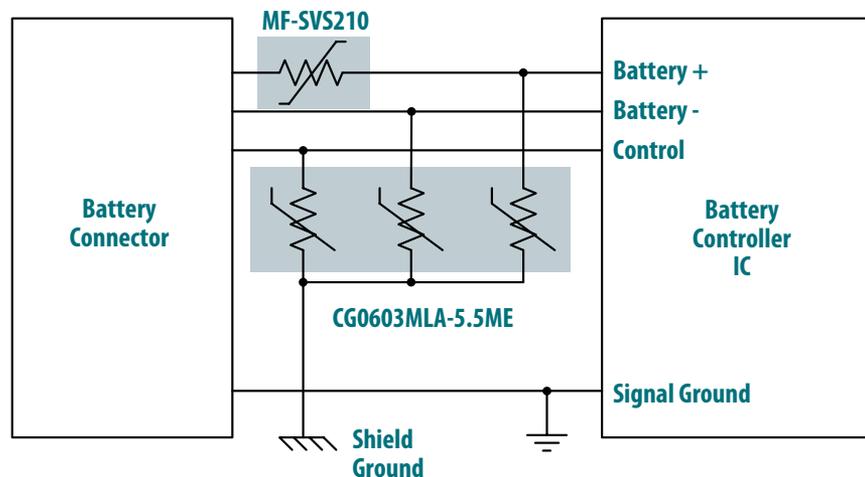
IEC 61000-4-2 ESD Level 4

### 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.*

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