

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[®] PPTC Resettable Fuse:
MF Strap type (ex. MF-SVS210-0)
3 ChipGuard[®] ESD Suppressors:
CG0603MLA-5.5ME

Compliance

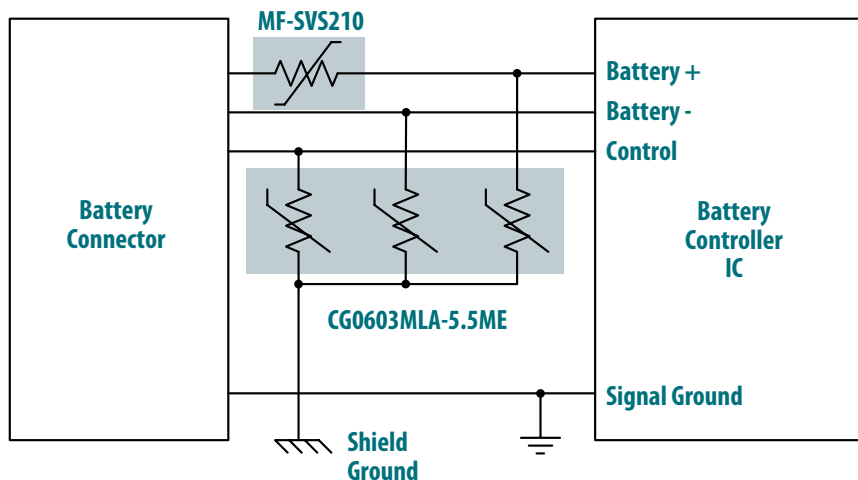
IEC 61000-4-2 ESD Level 4

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.