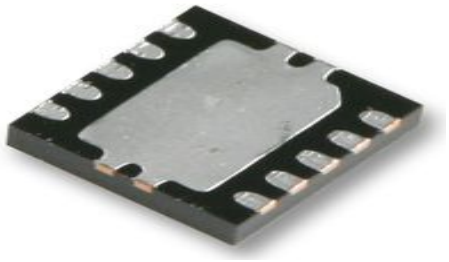
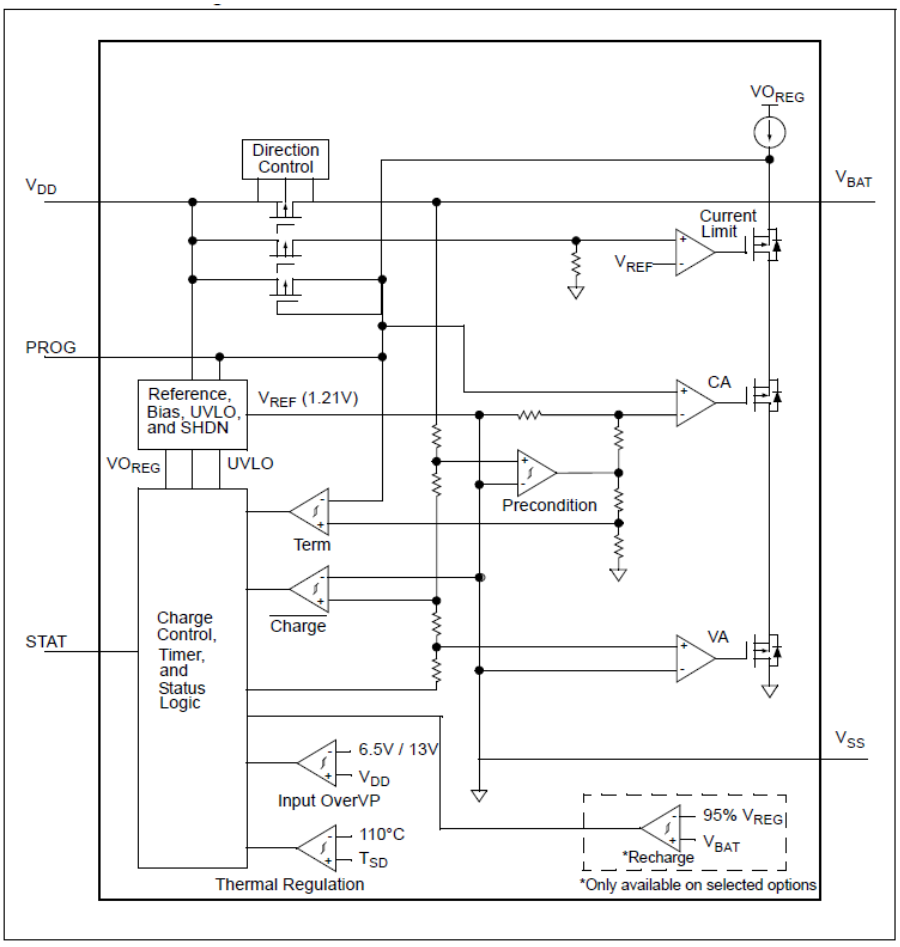
MCP73223 Lithium Iron Phosphate (LiFePO4) Battery Charge Management Controller

General Description:

The MCP73223 is a dual cell, highly integrated Li-Ion battery charge management controller for use in space-limited and cost-sensitive applications. The MCP73223 can accept an absolute maximum of 18V input and provides a 13V overvoltage protection. The output current can be programmed to be between 130 mA and 1100 mA. The MCP73223 is fully specified over the ambient temperature range of -40°C to +85°C and is available in a 10 lead, 3x3 mm DFN package.





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Key Features:

- Complete Linear Charge Management Controller:
  - Integrated Input Overvoltage Protection
  - Integrated Pass Transistor
  - Integrated Current Sense
  - Integrated Reverse Discharge Protection
- Constant Current / Constant Voltage Operation with Thermal Regulation
- 4.15V Under voltage Lockout (UVLO)
- 13V Input Overvoltage Protection
- High Accuracy Preset Voltage Regulation Through Full Temperature Range (-5°C to +55°C):
  - + 0.6%
- Battery Charge Voltage Options:
  - 8.20V, 8.40V, 8.7V or 8.8V
- Resistor Programmable Fast Charge Current:
  - 130 mA - 1100 mA
- Preconditioning of Deeply Depleted Cells:
  - Available Options: 10% or Disable
- Integrated Precondition Timer:
  - 32 Minutes or Disable
- Automatic End-of-Charge Control:
  - Selectable Minimum Current Ratio: 5%, 7.5%, 10% or 20%
  - Elapse Safety Timer: 4 HR, 6 HR, 8 HR or Disable
- Automatic Recharge:
  - Available Options: 95% or Disable
- Factory Preset Charge Status Output:
  - On/Off or Flashing
- Soft Start
- Temperature Range: -40°C to +85°C
- Packaging: DFN-10 (3 mm x 3 mm)

Application:

- Low-Cost LiFePO4 Battery Chargers
- Power Tools
- Toys
- Backup Energy Storages

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Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
MCP73123-22SI/MF	1800229	14R8876	Single Cell Lithium Iron Phosphate Battery Device - DFN
MCP73223-C2SI/MF	1800233	14R8882	Dual Cell Lithium Iron Phosphate Battery Device - DFN

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