



1.2 A Single-Cell Li-Ion / Li-Polymer Battery Charger

MC34673

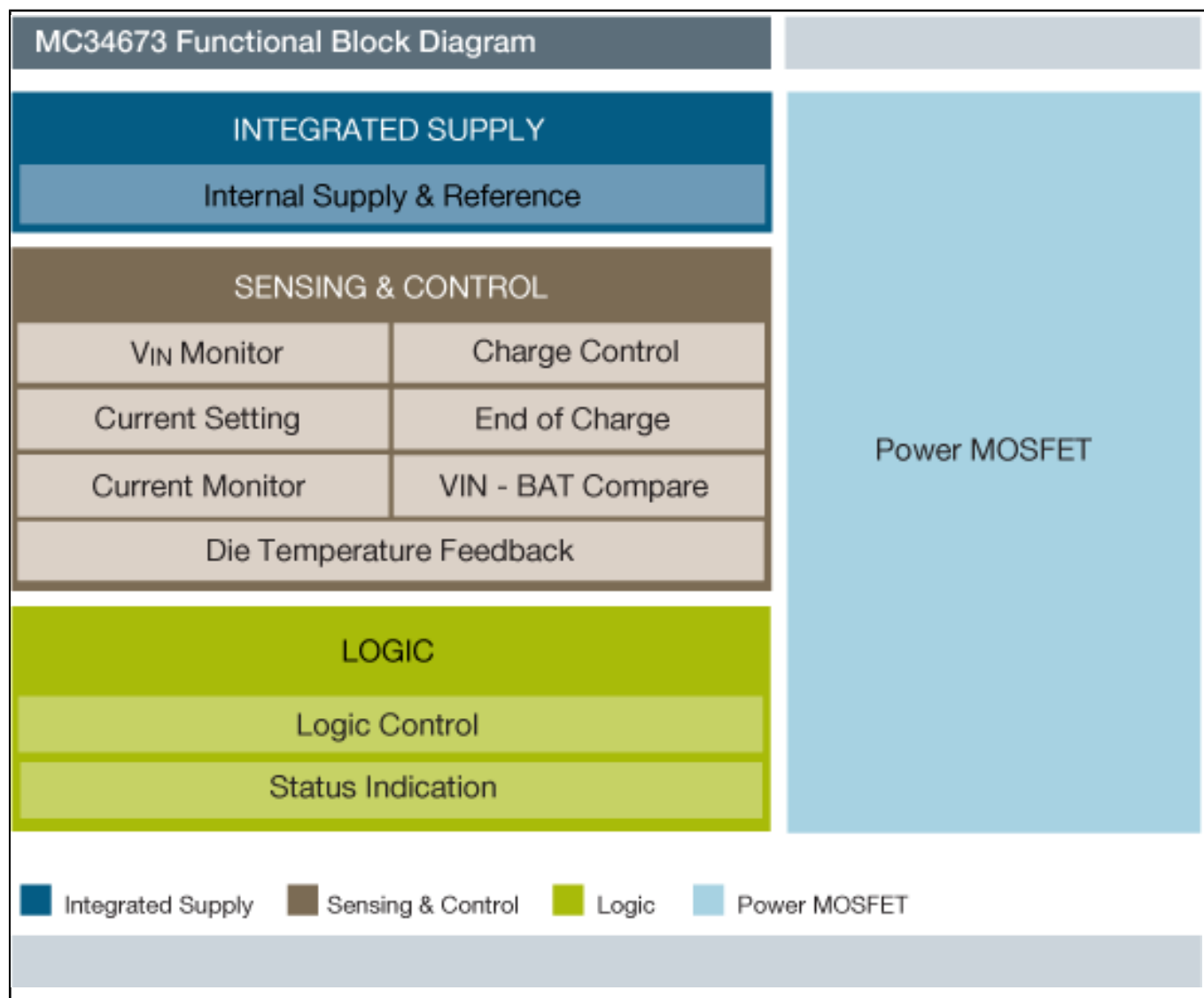
Last Updated: Dec 17, 2024

The MC34673 is a cost-effective fully-integrated battery charger for Li-Ion or Li-Polymer batteries. It tolerates an input voltage up to 28 V, which eliminates the input over-voltage-protection circuit required in handheld devices. A charge cycle includes trickle, constant-current (CC) and constant-voltage (CV) charge modes.

The CC-mode current is programmable up to 1.2 A with an external resistor. The constant voltage is fixed at 4.2 V. The trickle-mode current is pre-set to 20% of the CC-mode current when the battery voltage is lower than the trickle-mode threshold. The end-of-charge (EOC) current threshold is pre-set to 10% of the CC-mode current to save the board space and cost. A charge-current thermal-foldback feature limits the charge current when the IC internal temperature rises to a pre-set threshold.

The MC34673 has a 2.6 V falling power-on-reset (POR) threshold, making it ideal to work with current-limited power supplies. Three indication pins (PPR, CHG and FAST) can be simply interfaced to a microprocessor or LEDs. When no power supply is connected, or when disabled, the charger draws less than 1.0 μ A leakage current from the battery.

Freescale MC34673 Battery Management Block Diagram Block Diagram



View additional information for [1.2 A Single-Cell Li-Ion / Li-Polymer Battery Charger](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.