MP2797

7 to 16-cell High-Accuracy Battery Monitor and Protector with Coulomb Counting
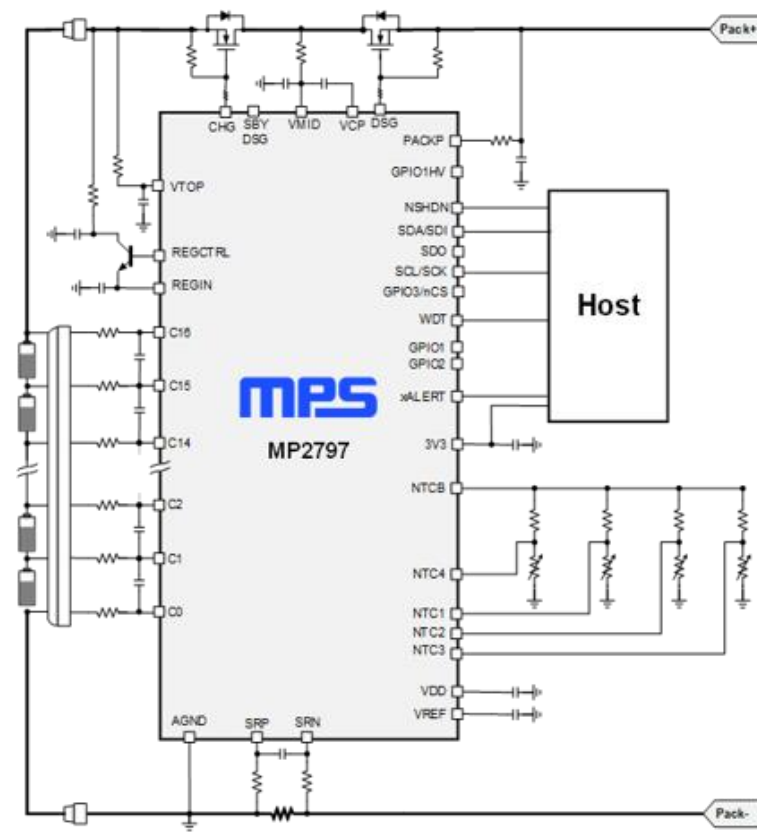
Key Features

- Voltage Measurements for 7 to 16 Series Cells
- 4 NTCs and die temperature measurements
- Internal balancing current up to 58mA
- 3.3V Regulated output, up to 50mA
- Integrates High Side N-FET driver
- 1 x High Voltage and 2 x Low Voltage GPIOs
- I2C or SPI communication with CRC option

Why Buy?

- High Accuracy: $\pm$5mV@25°C, $\pm$7.5mV @-20°C~65°C
- Soft-start function to eliminate pre-discharge circuit
- High integrated passive balance current, 58mA

TQFP-48 (7mm×7mm) Package

Applications

- Energy Storage System (ESS)
- E-bike, E-scooter
- Power and Gardening Tools
- Battery Backup and UPS

MP2791

7 to 14-Cell High-Accuracy Battery Monitor and Protector with Coulomb Counting
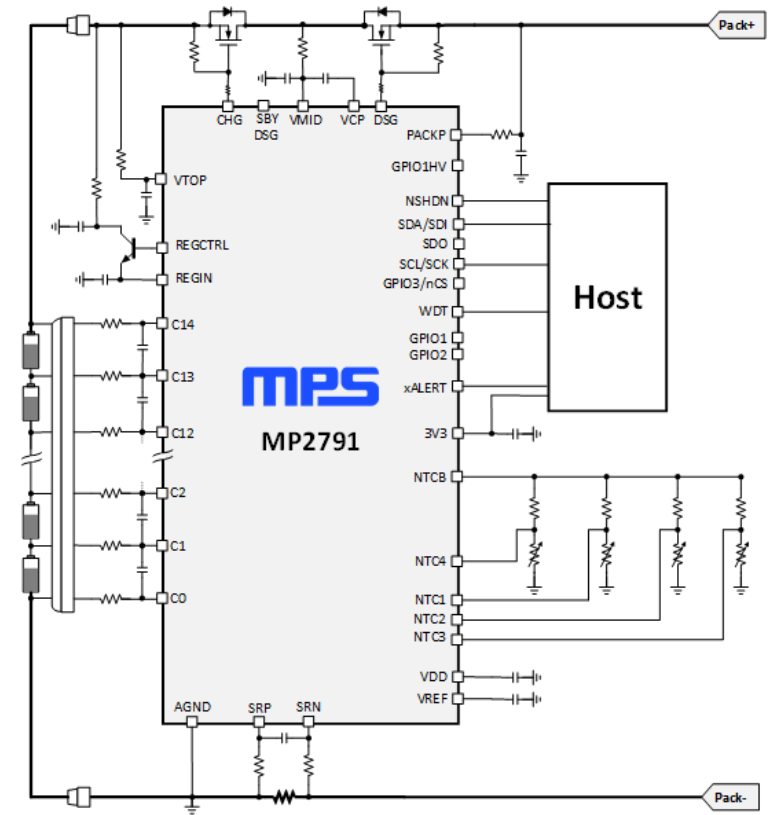
Key Features

- Voltage Measurements for 7 to 14 Series Cells
- 4 NTCs and die temperature measurements
- Internal balancing current up to 58mA
- External balancing with transistor or MOSFET can support higher current
- 3.3V Regulated output, up to 50mA
- < 1uA in shutdown mode with 3.3V LDO disabled
- 1 x High Voltage and 2 x Low Voltage GPIOs
- I2C or SPI communication with CRC option

Why Buy?

- High Accuracy: $\pm$5mV@25°C, $\pm$7.5mV@-20°C~65°C
- Soft-start function to eliminate pre-discharge circuit
- High integrated passive balance current, 58mA

TQFP-48 (7mm×7mm) Package

Applications

- E-bike, E-balancing bike
- Outdoor Energy Storage Systems

MP2796

7 to 16-Cell High-Accuracy Battery Monitor and Protector

Key Features

- Voltage Measurements for 7 to 16 Series Cells
- Current Measurements with Accuracy: $\pm 1.5\%$ (-40° to 85° C, $\pm$ 100mV Sense Range)
- 4 NTCs and die temperature measurements
- Internal balancing current up to 58mA
- External balancing with transistor or MOSFET can support higher current
- 3.3V Regulated output, up to 50mA
- < 1uA quiescent current at shutdown mode with 3.3V LDO turned off
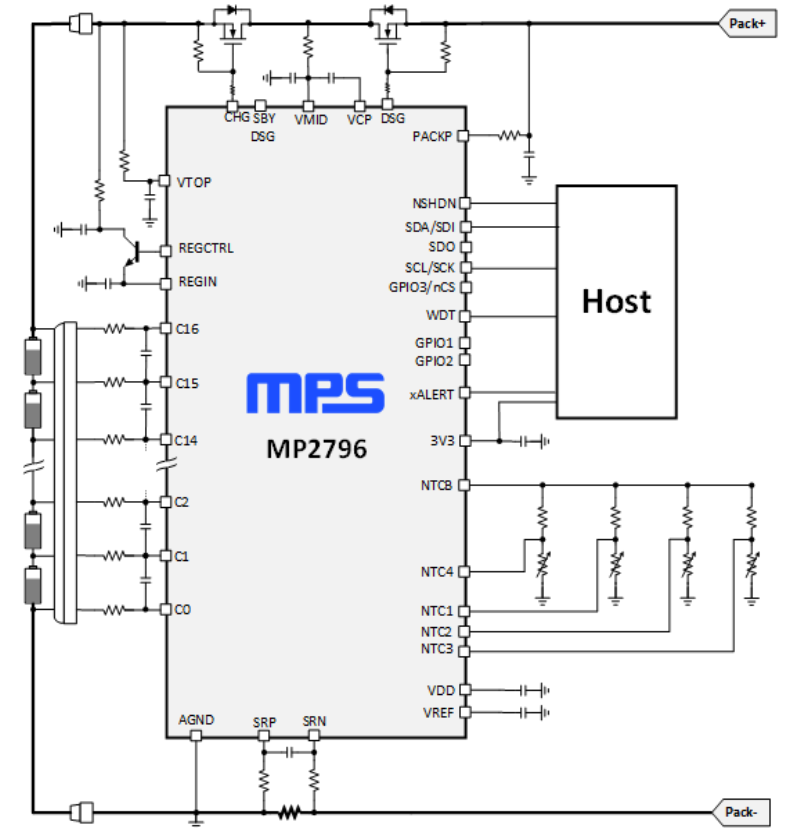- 2 x Low Voltage GPIOs
- I2C or SPI communication with CRC option

Why Buy?

- Soft-start function to eliminate pre-discharge circuit
- High integrated passive balance current, 58mA

TQFP-48 (7mm×7mm) Package

Applications

- E-bike, E-scooter
- Outdoor Energy Storage Systems

MP2787

7 to 16-Cell High-Accuracy Battery Monitor with Coulomb Counting

Key Features

- Voltage Measurements for 7 to 16 Series Cells
- 4 NTCs and die temperature measurements
- Internal balancing current up to 58mA
- External balancing with transistor or MOSFET can support higher current
- 3.3V Regulated output, up to 50mA
- < 1uA quiescent current at shutdown mode with 3.3V LDO turned off
- 1 x High Voltage and 2 x Low Voltage GPIOs
- Support Random Cell connection
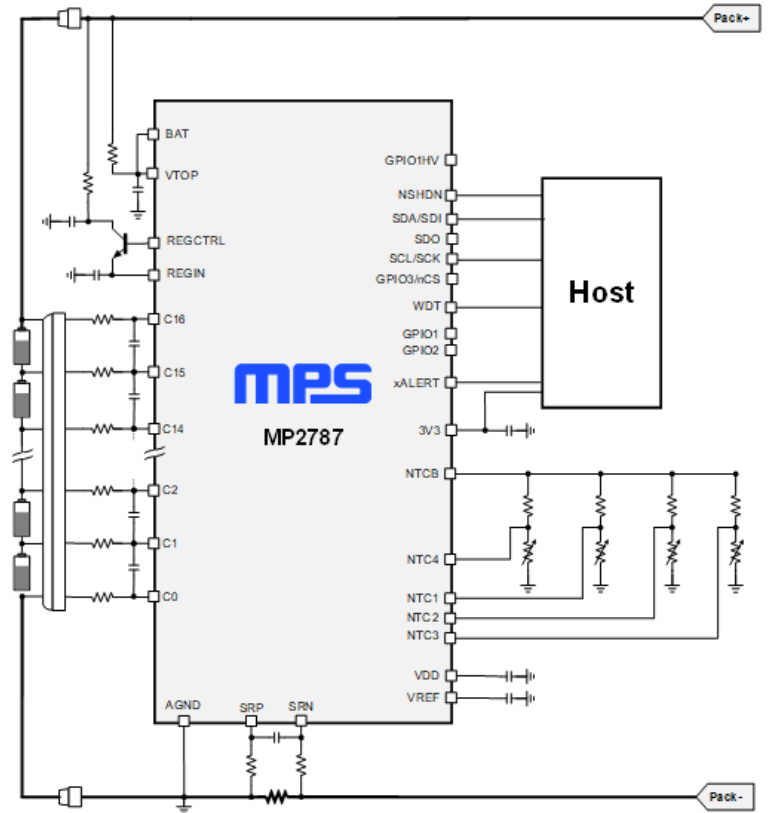- I2C or SPI communication with CRC option

Why Buy?

- High Accuracy: ±5mV@25°C, ±7.5mV@-20°C~65°C
- High integrated passive balance current, 58mA

TQFP-48 (7mm×7mm) Package

Applications

- Energy Storage System (ESS)
- Power and Gardening Tools
- Battery Backup and UPS

MP2790

7 to 10-Cell High-Accuracy Battery Monitor and Protector with Coulomb Counting

Key Features

- Voltage Measurements for 7 to 10 Series Cells
- Current Measurements with Accuracy: $\pm 1.5\%$ (-40° to 85° C, $\pm$ 100mV Sense Range)
- 3 NTCs and die temperature measurements
- Internal balancing current up to 58mA
- External balancing with transistor or MOSFET can support higher current
- 3.3V Regulated output, up to 50mA
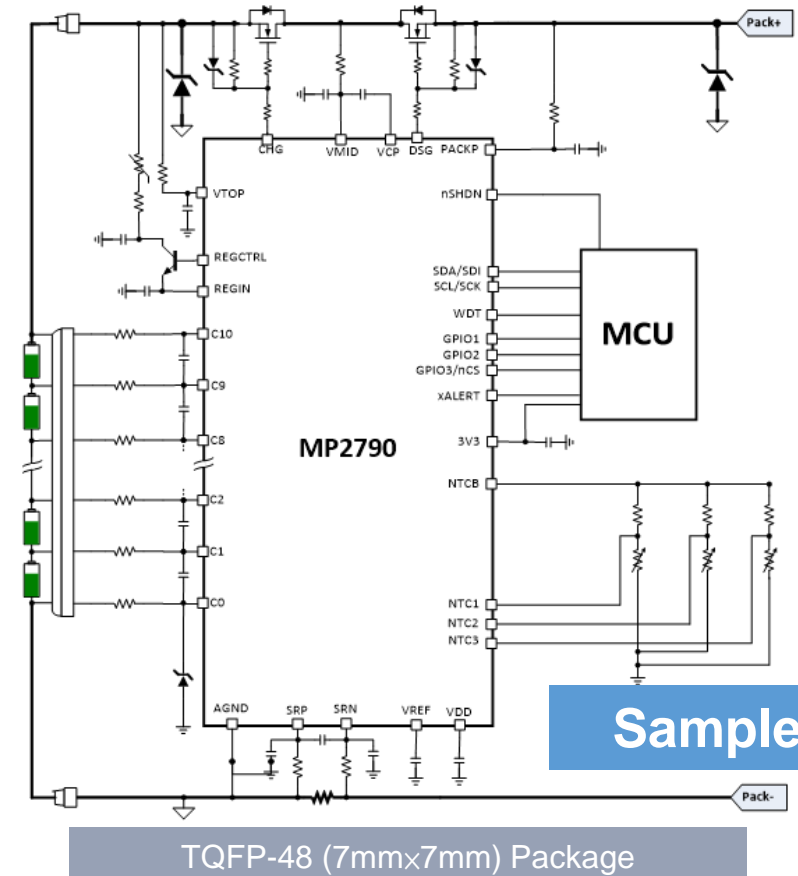- < 1uA quiescent current at shutdown mode with 3.3V LDO turned off
- 2 x Low Voltage GPIOs

Why Buy?

- High Accuracy: $\pm$5mV@25° C, $\pm$ 7.5mV@-20° C~65° C
- Soft-start function to eliminate pre-discharge circuit
- High integrated passive balance current, 58mA

Sample

TQFP-48 (7mm×7mm) Package

Applications

- E-balancing bike
- Outdoor Energy Storage Systems