
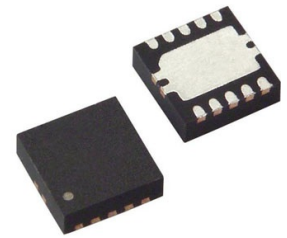


**Switching Battery Charger Li-Ion/Li-Pol/Li-FePO4 2000mA 4.2V  
24-Pin VQFN EP T/R**

|                      |  |
|----------------------|--|
| <b>Manufacturer:</b> | <a href="#">Texas Instruments, Inc</a>   |
| <b>Package/Case:</b> | VQFN   |
| <b>Product Type:</b> | Power Management ICs   |
| <b>RoHS:</b>         | RoHS Compliant/Lead free  |
| <b>Lifecycle:</b>    | NRND   |



Images are for reference only

[Inquiry](#)

## General Description

The BQ24257RGET is a single-cell Li-Ion battery charger IC designed to provide efficient and reliable charging for lithium-ion batteries used in various portable devices.

## Key Features

**Single-Cell Charging:** The BQ24257RGET is designed for charging single-cell lithium-ion batteries, typically used in portable electronic devices.

**High Efficiency Charging:** The charger IC incorporates advanced charging algorithms and power management techniques to maximize charging efficiency and minimize power loss.

**Input Voltage Range:** It can typically operate with a wide input voltage range, enabling charging from various power sources such as USB ports, adapters, or wireless power receivers.

**Charge Management Features:** The IC includes built-in features such as constant current charging, constant voltage charging, thermal regulation, and charge termination to ensure safe and optimal charging of the battery.

**Safety and Protection Features:** The charger IC offers a range of safety and protection features, including overvoltage protection, overcurrent protection, short-circuit protection, and thermal shutdown, to safeguard the battery and the charging circuitry.

**System Control Interface:** The BQ24257RGET may include a control interface, such as an I2C or SMBus, allowing for communication and control between the charger IC and the system microcontroller for monitoring and configuring charging parameters.

## Application

Smartphones and Tablets

Portable Media Players

Wearable Devices

Portable Gaming Devices

IoT (Internet of Things) Devices

## Recommended For You

### BQ51013BRHLR

Texas Instruments, Inc

VQFN20

### BQ51050BRHLT

Texas Instruments, Inc

QFN

### BQ51050BRHLR

Texas Instruments, Inc

VQFN-20

**BQ24045DSQR**

Texas Instruments, Inc  
WS0N10

**BQ24725ARGRT**

Texas Instruments, Inc  
QFN

**BQ7693000DBT**

Texas Instruments, Inc  
TSSOP30

**BQ25896RTWT**

Texas Instruments, Inc  
QFN24

**TL432BQDBZR**

Texas Instruments, Inc  
SOT23-3

**BQ2050HSN-A508**

Texas Instruments, Inc  
SOP16

**BQ24192RGER**

Texas Instruments, Inc  
VQFN24

**BQ2000SN-B5**

Texas Instruments, Inc  
SOP8

**BQ24105RHRLR**

Texas Instruments, Inc  
VQFN20

**BQ24190RGER**

Texas Instruments, Inc  
VQFN24

**BQ24010DRCR**

Texas Instruments, Inc  
QFN

**TPS54360BQDDAQ1**

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SOP-8