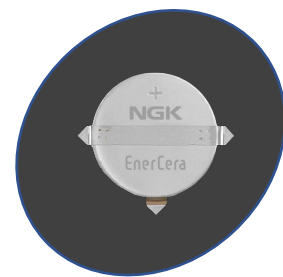


# EnerCera<sup>®</sup> Coin ET2016C-R



## Key Features of EnerCera Coin

- Ultra-compact lithium-ion rechargeable battery, ideal for IoT and compact electronics.
- Proprietary crystal-oriented ceramic technology enables:
  - High energy capacity
  - Thin and low-profile design
  - Low internal resistance
  - Excellent heat resistance
- Supports constant voltage charging, no charging IC required.

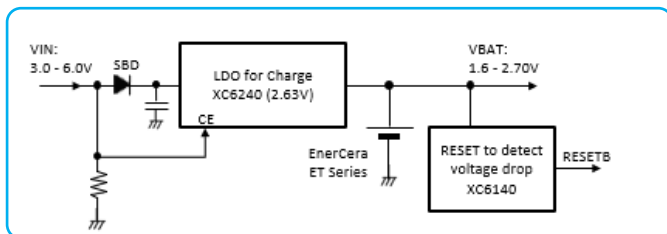
## Features of ET2016C-R

- Wide operating temperature range
- Standard use: -40° C to +70° C

Model Number	ET2016C-R
Diameter (without terminals)	Φ20mm
Thickness (with terminals)	2.05mm
Nominal Capacity	25mAh
Nominal Voltage	2.3 V
Charging Method	Constant Voltage (CV) charging (No current control required)
Charging Voltage	2.7V
Operating Voltage	1.5V ~ 2.7V
(Ref.) Peak Discharge Current ※1	60mA
Operation Temperature	-40°C ~ 70°C

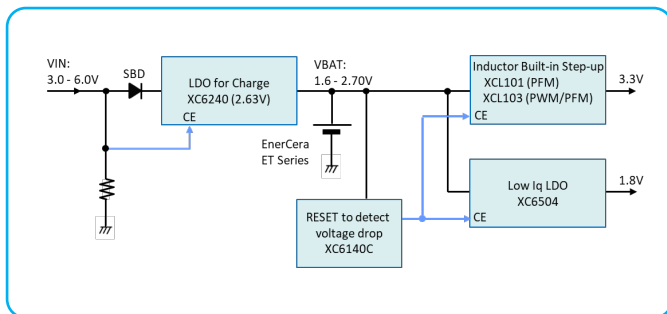
※1 Voltage drop is less than 0.5V with continuous discharge for 0.1 sec. (at 25°C)

## Example charging circuit



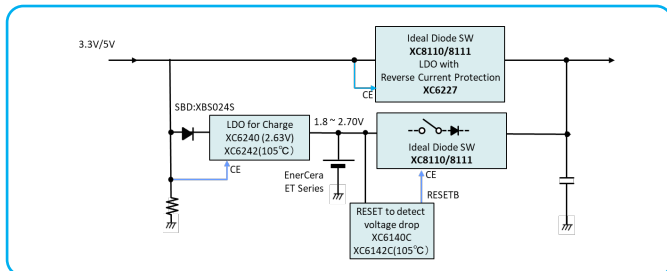
Select a charging LDO that stays below 2.7V, considering temperature and tolerance. To reduce battery drain when power is off, use reverse current protection and LDO standby control. A voltage detector is recommended to prevent over-discharge.

## Example Circuit for IoT Applications



3.3V supplied by boost DC/DC, 1.8V by low-power LDO. Power ICs are controlled by a voltage detector optimized for battery voltage drop and recharge timing.

## Example Circuit for Backup Applications



When the main power is available, its voltage is supplied. If it drops, the circuit automatically switches to backup power.

## 【Precautions】

Please refer to the second page before using this product. Please obtain the “User Guide” and read the sections “Safety Precautions” and “Usage Notes” before use.

## Precautions

# EnerCera<sup>®</sup> Coin ET2016C-R

EnerCera batteries sold online are intended for experimental and evaluation purposes only.

If you are considering using them for mass production, please contact us in advance.

These products are not intended for use by general consumers, including charging/discharging, integration into devices, or removal from devices.

Please contact us before using this product in any of the following applications:

- Nuclear control systems, transportation equipment (railways, vehicles, aircraft, ships, etc.), medical devices, safety equipment, or any systems, machinery, or devices where failure could pose a risk to human life or property.
- Any other applications requiring exceptionally high reliability or safety, similar to those listed above.

Please consult us in advance, as this product has limitations for mounting processes involving heat.

Note: This product is not compatible with reflow soldering.

The product is shipped in a discharged state.

Do not short-circuit the positive (+) and negative (–) terminals.

### Contact

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