

## Quick charge solutions using CT04120

RoHS

REACH

Hand  
Soldering  
Only

### 1. Overview

Murata's CT04120 can provide high input/output despite its small package. Using Murata's CT04120 which can be charged even by quick charge, you can immediately put your equipment to work.

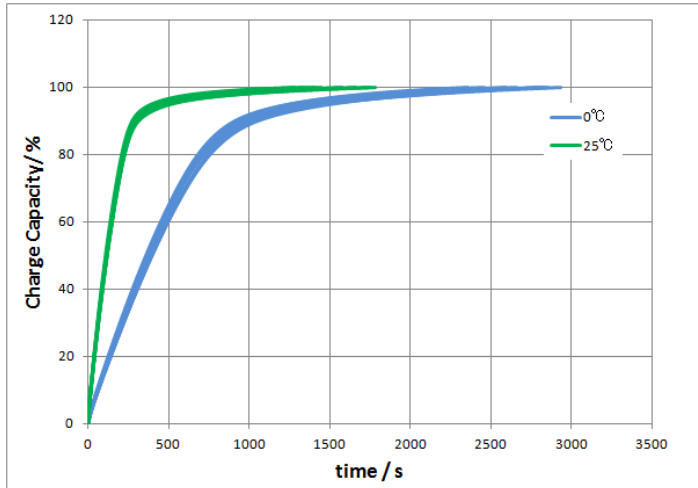


Fig. 1 Charge characteristic  
(e.g. 33C (100mA) Charge)

### 2. Features

- High Capacity / low ESR  
CT04120: 3mAh / 1000mΩ
- Very low leakage current
- Flat voltage profile of 2.3V

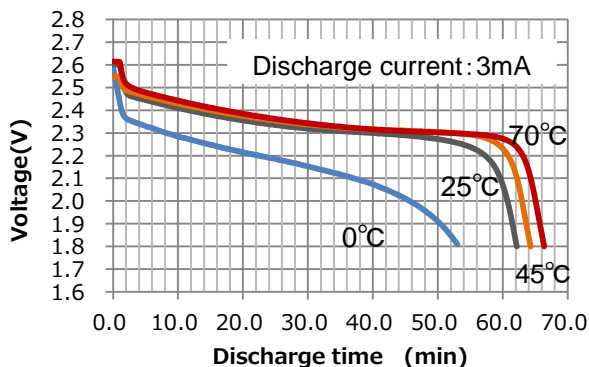


Fig. 2 Constant current discharge characteristic

### 3. Description

CT04120 can be charged/discharged at high current of over 10C<sup>\*1</sup> (30mA) to which conventional lithium ion secondary batteries cannot respond. For example, table 1 shows the relationship between capacity and charge time when charging CT04120 by 33C (100mA) at 25°C. Because over half capacity can be charged for just several minutes, you can put your equipment to work immediately.

\*1) The current rate at which the battery capacity is charged or discharged in one hour is defined as 1 C. When battery capacity is 3mAh, 1C is equal to 3mA. The higher this rate, the higher current a battery can be charged or discharged.

33C (100mA) Charge, Charge Capacity and Operational time at 25°C

Charge Capacity [%]	Charge Time [min:sec]	Operational time [min:sec]	
		1C (3mA) Load	10C (30mA) Load
20 (0.6mAh)	0:40	12:00	1:12
40 (1.2mAh)	1:28	24:00	2:24
60 (1.8mAh)	2:26	36:00	3:36
80 (2.4mAh)	3:41	48:00	4:48
90 (2.7mAh)	4:55	54:00	5:24
100 (3mAh)	25:30	60:00	6:00

Table1 Capacity and Charge time

### 4. Applications

- (1) Sensor network devices
- (2) PC accessories (wireless mouse, electric pen, and so on)
- (3) Wearable devices
- (4) Security equipment

### 5. Product Lineup

Product name	CT04120	Dimensions	
		ΦD	4mm
Nominal Voltage	2.3V	L	12mm
Charge Voltage	2.7V	Φd	0.45mm
End of discharge Voltage	1.8V	F	1.5mm
Capacity	3mAh	Operating temp	-20 ~ 70°C



### 6. Support

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