

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Small Energy Device Laminate type (UMAL)

muRata **REACH UL1642 RoHS** Soldering

Rechargeable battery having long cycle life High rate charge/discharge is available.



Advantages

① High rate charge/discharge

100mohm low ESR and high rate(10C,240mA) enabled by optimizing materials and structure

② High safety

No thermal runaway occurs because of its low capacity and chemically stable materials. This product received safety standard, UL1642 and IEC61233 certification.

UMAL

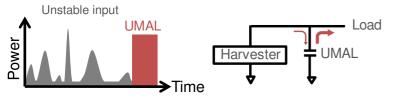
3 Long cycle life

Charge (capacity) recovery is over 90% even after 5000 cycles. It can realize maintenance free design

Applications & Benefits

1. Energy Harvesting Systems

- Charge/Discharge in Wide Input/Output Range
- Long working time due to Low Leakage Current
- Quick start without pre-charging due to Low Leakage Current
- Enables Maintenance Free



Application Example:

- ✓ Solar battery charger equipment
- ✓ Sensor node with wireless sensor network in combination with micro and macro energy harvesting systems

3. Small power equipment

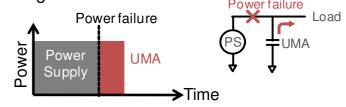
- Can be charged with High Input(10C,240mA)
- Quick start due to high Input
- Permanent use due to long cycle life
 High safety due to low capacity

Application Example:

- ✓ PC accessory (Wireless mouse, etc.)
- Wearable equipment

2. Backup

- Can backup system during replacing main battery
- Long backup time over 30sec
- High power discharge is available
- Long cycle life



Application Example:

- Handy terminal / barcode reader
- ✓ POS (payment terminals, etc.)
- Emergency call or transmitter (medical equipments such as nurse call, industrial equipments using ISM band, etc.)
- Other battery powered equipments

For more details, please visit our website. Product datasheets Application notes and Technical notes are available.

<u> http://www.murata.com/en-global/product</u> s/smallenergydevice/uma

Specifications

	Туре	UMAL361421B024TA01		L: 21.0mm
	Nominal Voltage	2.3V	size	W: 14.0mm
	Charge Voltage	2.7V		
	End-of-discharge Voltage	1.8V		
	Capacity	24mAh (100F)		T: 3.6 mm 1
	ESR	100mΩ	Operating Temp. range	-20∼70°C

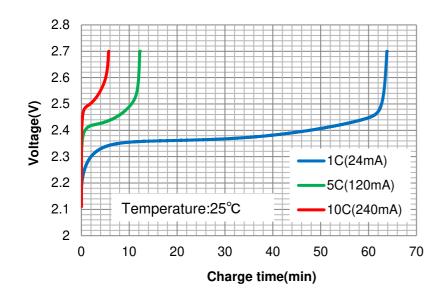
Recycle: Lithium-Ion batteries can be recycled. Regulations and laws related to the recycling of lithium ion batteries vary from country to country as well as by state and local governments. Please check the laws and regulations of final consuming areas.

Characteristics

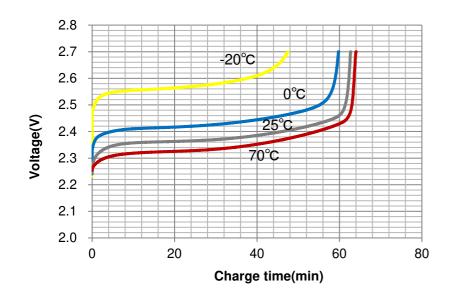
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Jan.23, 2018

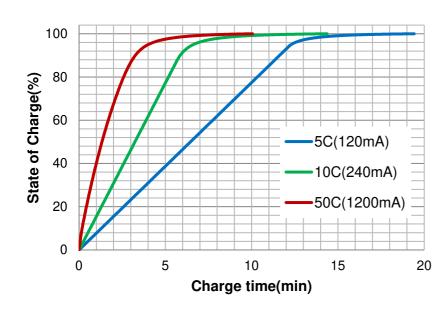
Charge Current Characteristics



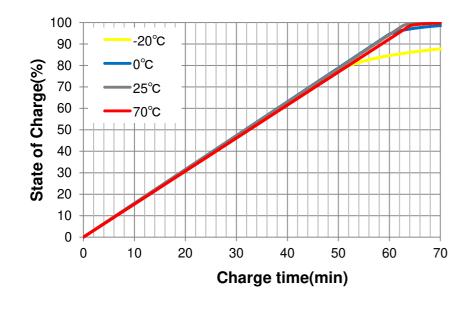
Charge: Temperature Characteristics



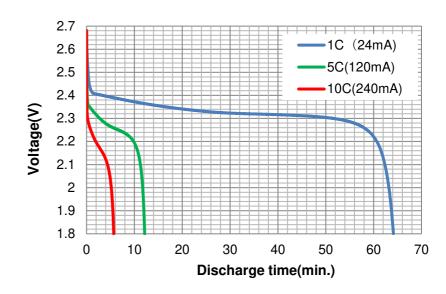
State of Charge : Current Characteristics



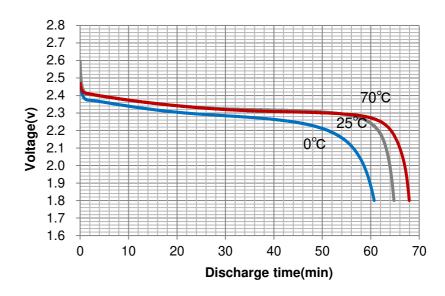
State of Charge: Temperature Characteristics



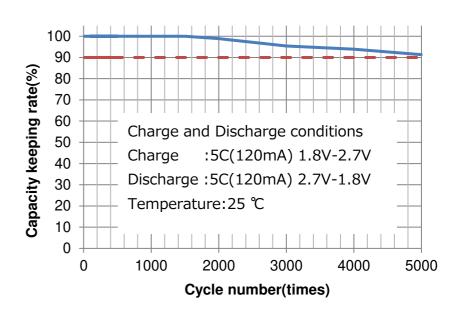
Discharge Current Characteristics



Discharge Temperature Characteristics



Cycle Characteristics



Charge(Capacity) Retention

