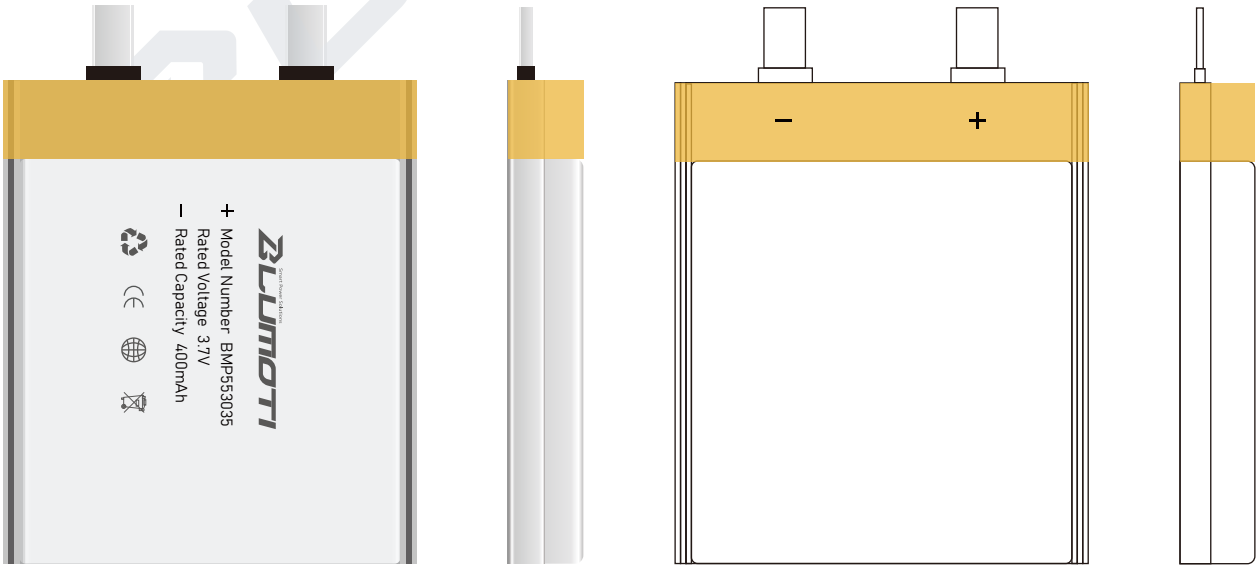
1.Scope of Application

This specification applies to Model BMP553035 lithium-ion polymer rechargeable cells, with a nominal voltage of 3.7 V and a nominal capacity of 400 mAh. This document is intended for product selection, sample confirmation, incoming inspection, and structural design reference.

Unless otherwise agreed, this document refers to bare cells only, excluding protection circuits, thermistors, connecting wires, connectors, adhesive tapes, brackets, or housings. The final finished battery pack must be equipped with protection circuits and structural protection that meet the application requirements.

2.Product Type and Product Model

Item	Specification
2.1 Type	Polymer Li-ion Rechargeable Battery Cell
2.2 Model	BMP553035

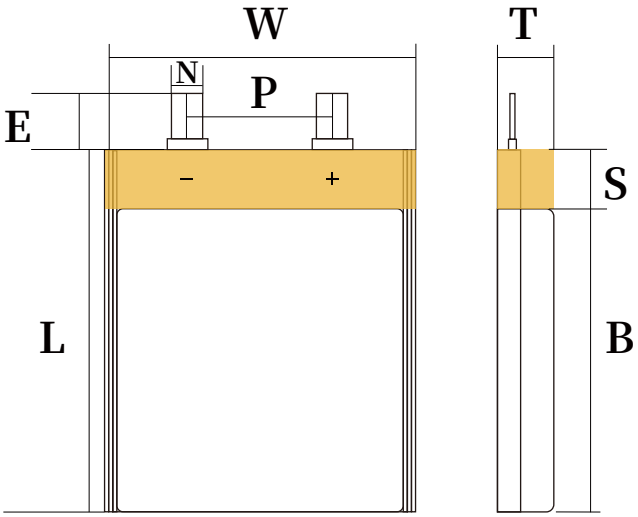


3.Basic Product Characteristics

NO.	Item		Characteristics
3.1	Rated Capacity		400mAh
3.2	Minimum Capacity		400 mAh
3.3	Nominal Voltage		3.7 V
3.4	Rated Energy		1.480 Wh
3.5	Charge Limit Voltage		4.20 V
3.6	Discharge Cut-off Voltage		3.0 V
3.7	End-of-charge Current		0.01 C = 4.0 mA
3.8	Standard Charge		Charge at 0.2C =80 mA with constant current to the charge limit voltage, then charge at constant voltage until the end-of-charge current is reached.
3.9	Standard Discharge		Discharge at 0.2 C= 80 mA with constant current to the discharge cut-off voltage.
3.10	Maximum Continuous Charge Current		0.5 C, 200 mA
3.11	Maximum Continuous Discharge Current		1.0 C, 400 mA
3.12	3.12.1	Charge Temperature Range	0 °C–45 °C
	3.12.2	Discharge Temperature Range	-10 °C to 60 °C
	3.12.3	Storage Temperature Range	-20 °C to 60 °C
3.13	Operating and Storage Humidity Range		65±20% RH
3.14	Weight		Less than 6.0 g

✳Note: C-rate is calculated based on the nominal capacity of 400 mAh.

4.Cell Dimensions



Item	Description	Dimension
W	Cell Width	Max 30.0 mm
T	Cell Thickness	Max 5.5mm
L	Cell Length Excluding Tabs	Max 35.0 mm
B	Main Body Length	Max 31.5 mm
S	Top Seal Width	3.5 mm ± 0.5 mm
E	Tab Protrusion Length	8.0mm±1.0mm
P	Tab Center-to-Center Pitch	15.5 mm ± 1.0 mm
N	Tab Width	6.0 mm ± 0.1 mm

Unit: mm
Drawing not to scale. Dimensions shown shall prevail.
B and S are reference dimensions. Overall dimension L shall prevail.

5.Cell Appearance Drawing