

VARTA Microbattery

mobility for you

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Specification

1. General

Li-Ion Battery Pack in shrink sleeve incl. safety circuit,
 cable and wires connector
 Weight: approx. 20g
 Cell: LIP653450 UC
 PCM : PLH1328F12
 NTC: None
 ID: None
 Polyswitch: PSR25091F
 Configuration: 1S

2. Electrical Specification

Rated Capacity: 1100mAh minimum, 1130mAh typical
 Nominal Voltage: 3.7V
 Max. Operating Voltage Range: 2.75V to 4.2V
 Max. Charge Current: 1695mA (cell data sheet)
 Max. Continuous Discharge Current: 1800mA (limited by PCM)
 Internal Resistance: AC (1kHz) approx. 120mΩ
 Exp.Cycle Life: >400cycles>80% of initial cap. (1C/1C)

cell protection

Overcharge Detection: 4.325V ± 25mV
 (0.5sec. to 2sec. delay, resume 4.075V ± 50mV)
 Overdischarge Detection: 2.500V ± 80mV
 (62.5msec to 250msec. delay, resume 2.900V ± 100mV)
 Overcurrent Detection: 2A to 5A (4msec. to 16msec. delay)

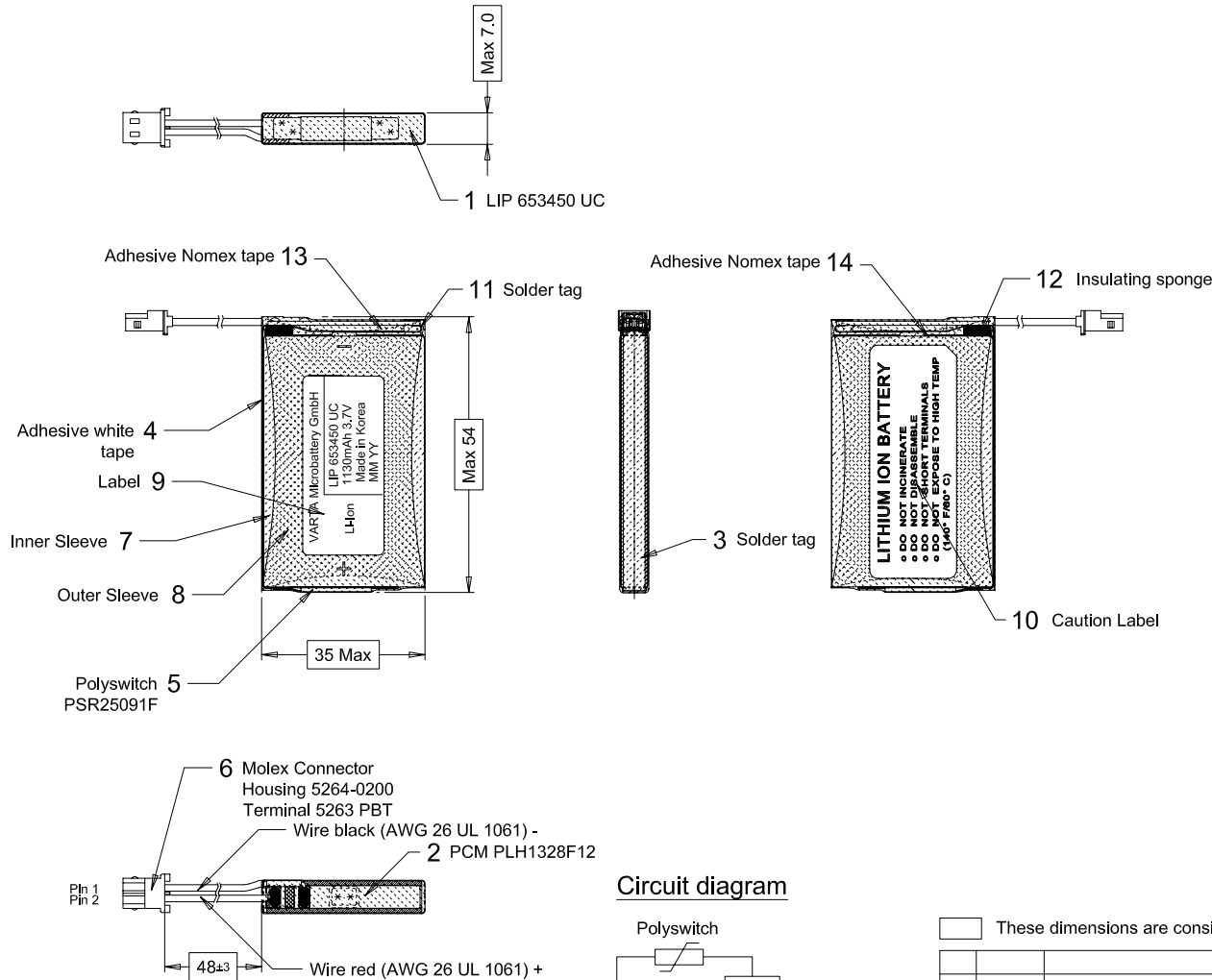
3. Ambient Conditions

Temperature Range
 -Charge: 0 to +45°C
 -Discharge: -20 to +60°C
 -Charge Retention/Storage [%]:
 1 year at -20 to 20°C > 70
 3 month at -20 to 45°C > 70
 1 month at -20 to 60°C > 70

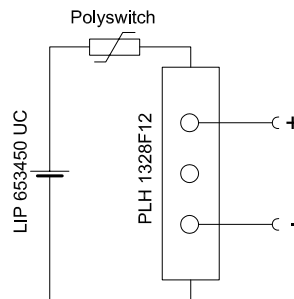
Humidity: 65 ± 20%RH

4. Safety

Please follow Li-Ion Handling and Safety Precautions



Circuit diagram



These dimensions are considered inspectable

No	AO No	Revisions	Date	Name
1	P019/07	Change description of cell LIP 653450 UC was LIP 653450 TC	2007-03-05	Dldt
0	L043/06	Refer to provisional drawing no. P26-100026 rev. 000	2006-07-25	Didit

Projection:		Material: Refer to part list #695241		Description: 1/LIP 653450 UC PCM S WC With PCM, sleeve and wires connector	
Dimensions in mm		Prepared & Checked	Verified & Approved	Dwg. No: 695241	4 0 1
Tolerance: ISO 2768-m		2006-06-29	Didit	VKB Order No: 56491 201 012	
Scale: 1 : 1 in A3					

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- Battery visible surfaces to be free from scratches, marks, and foreign substances
 - Production date printed according to MMYY