/ Descriptions

BRCL3130DZZ MOSFET

MOSFET

BRCL3130DZZ DFN2×2-8L

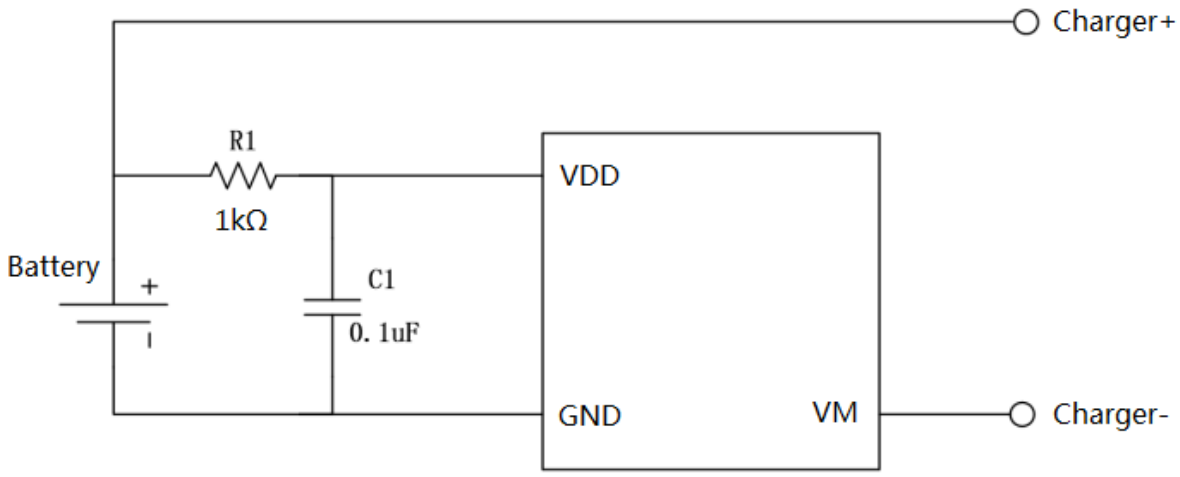
/ Features

- 16mΩ MOSFET
- DFN2×2-8L
-
-
- 3.5 μA
- 0.6 μA
-

/ Applications

Single lithium ion rechargeable battery pack, single lithium polymer rechargeable battery pack.

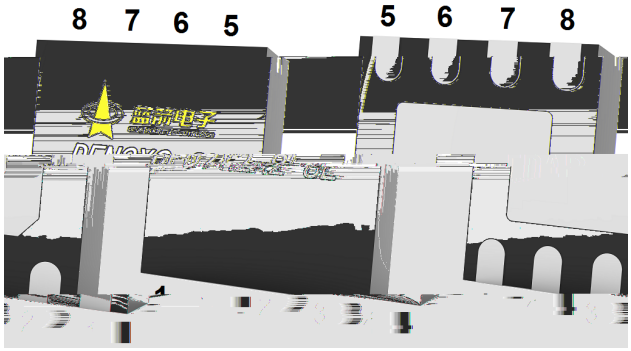
/ Typical Application



R1 1kΩ -2kΩ , C1 0-1uF

R1 1K

/ Pinning



Pin Number	Pin Name	Pin Description
1		
2,3,4	GND	
5,6,7,8	VM	
EPAD	GND	

/ Marking

/ Absolute Maximum Ratings(Ta=25)

		±	

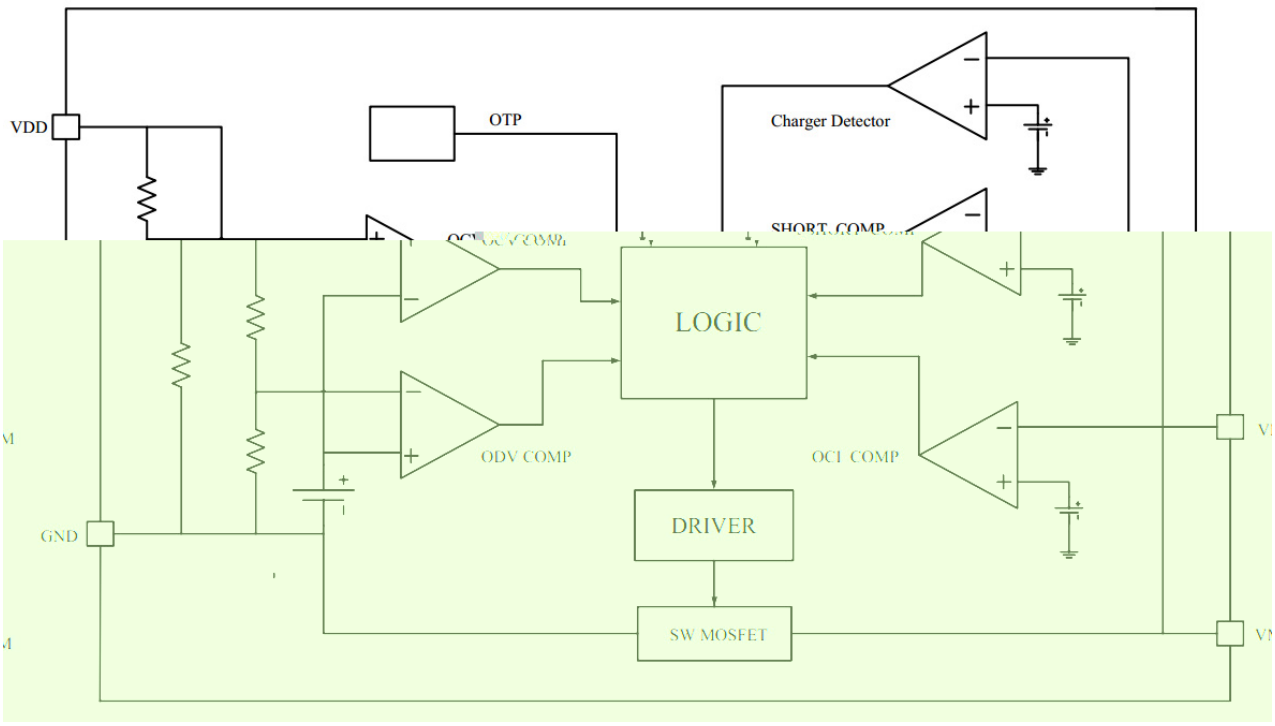
/ Electrical Characteristics(Unless otherwise specified,Ta=25)

Power supply						
Detection voltage						
Detection current						
Static current						
						μ
						μ
Pull-up and Pull-down Current from VM						
						μ
						μ
Equivalent FET on Resistance						
						Ω

/ Electrical Characteristics(Ta=25)

Over temperature protection						
Detection delay						
						μ

Functionl Block Diagram



Functional Description

BRCL3130DZZ

MOSFET 16mΩ

BRCL3130DZZ

Normal Operating mode

Overcharge Voltage Condition

(V_{OCV})

(T_{OCV}) BRCL3130DZZ MOSFET

(T_{OCV})

1 VM (V_{CHA}) (V_{OCR})

2 (Vocv)

I_{CHA} (T_{OCI}) MOSFET

BRCL3130DZZ

Overdischarge Voltage Condition

(V_{ODV})

(T_{ODV}) BRCL3130DZZ

MOSFET VDD 2.3V ( )

(I_{PDN}). VDD 2.4V ( )

(V_{ODR}) BRCL3130DZZ

Overdischarge Current Condition

VM

VM

Load Short-circuiting Condition

VM (V_{SHORT})

T_{SHORT} VM

Charger Detection

VM (V_{CHA})

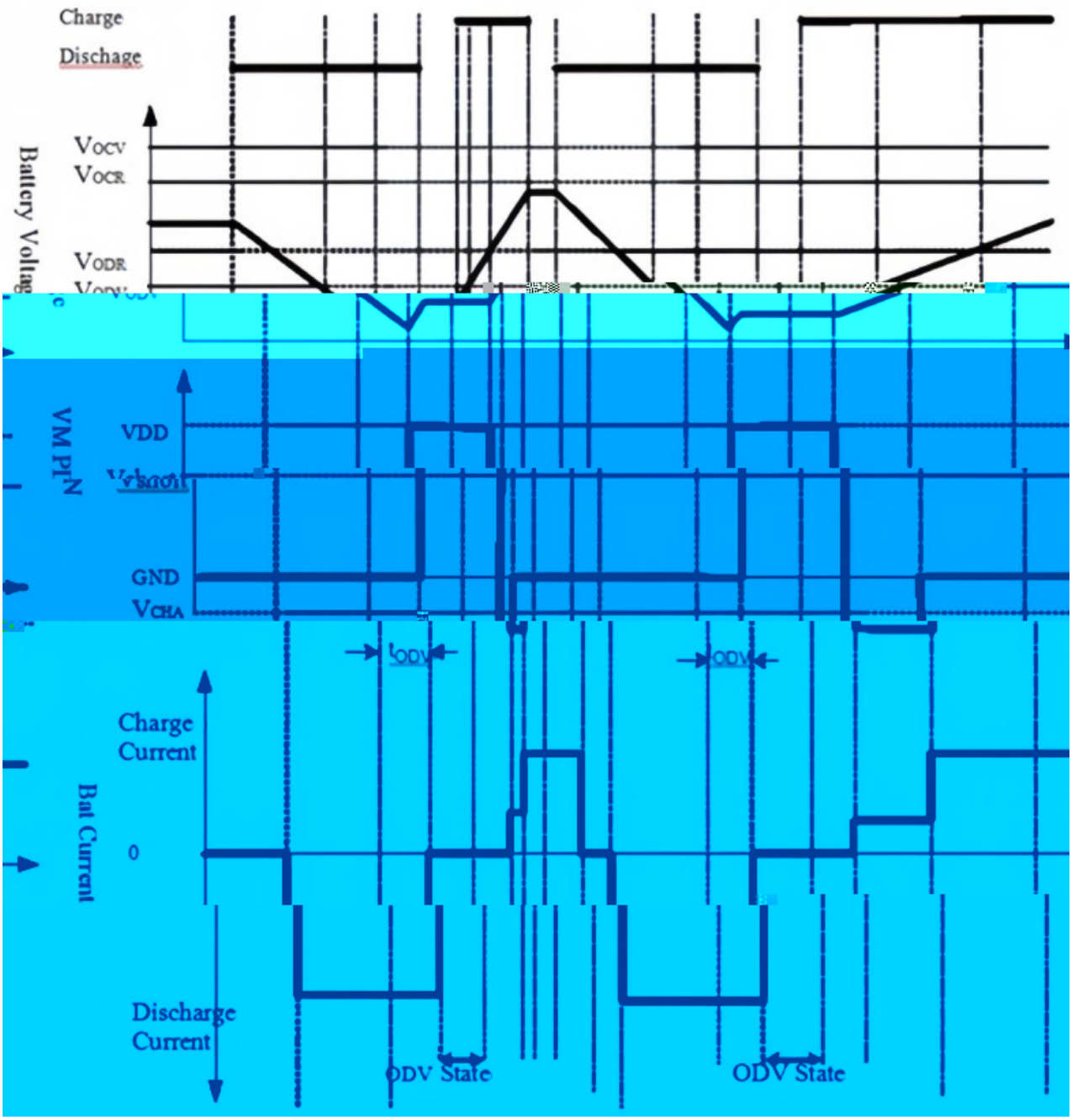
0V Battery Charging Function

0V 2.33 گ Ã D I

2.33 ▪

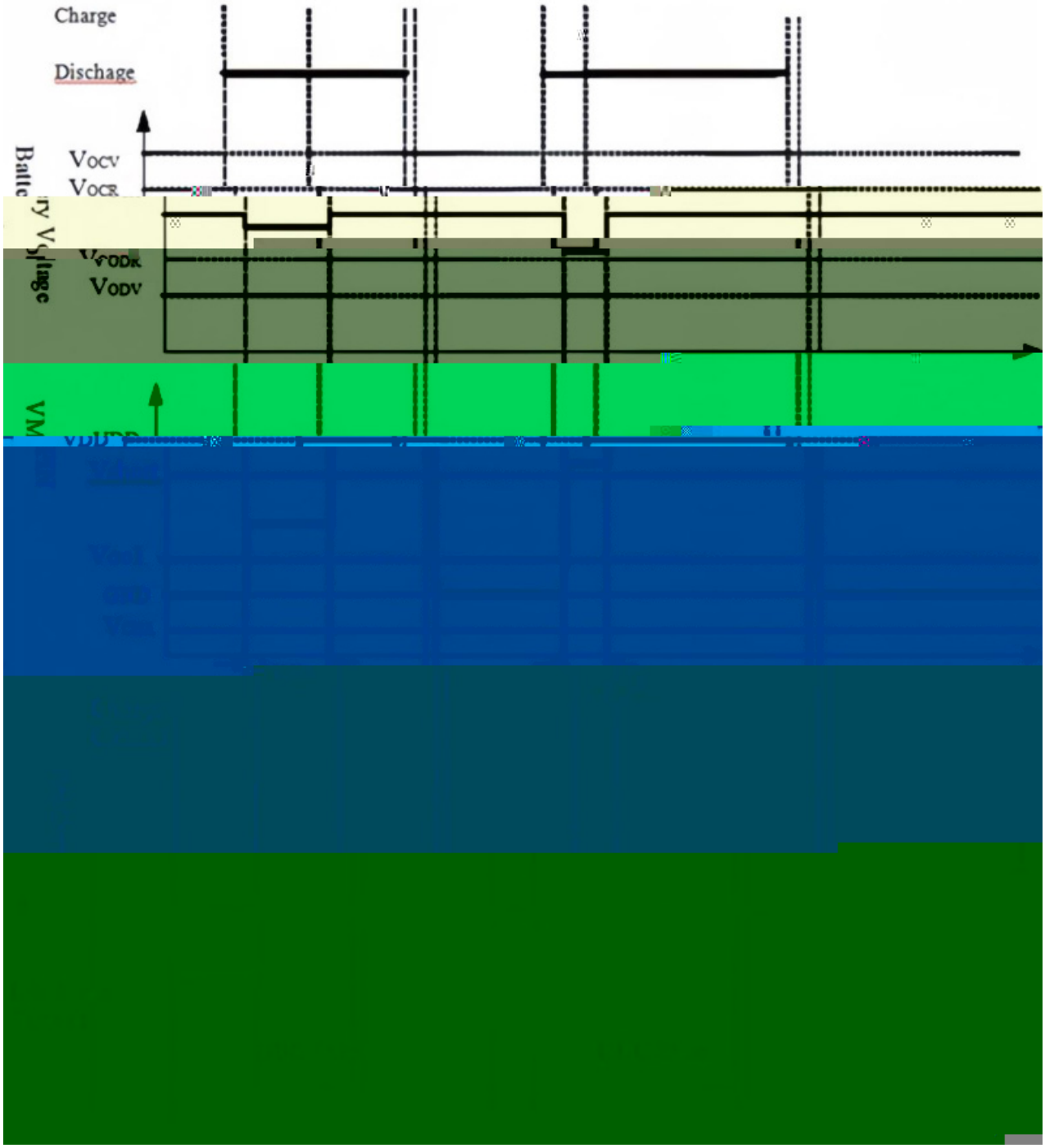
Timing Chart

Overdischarge Charging Normal Operation.



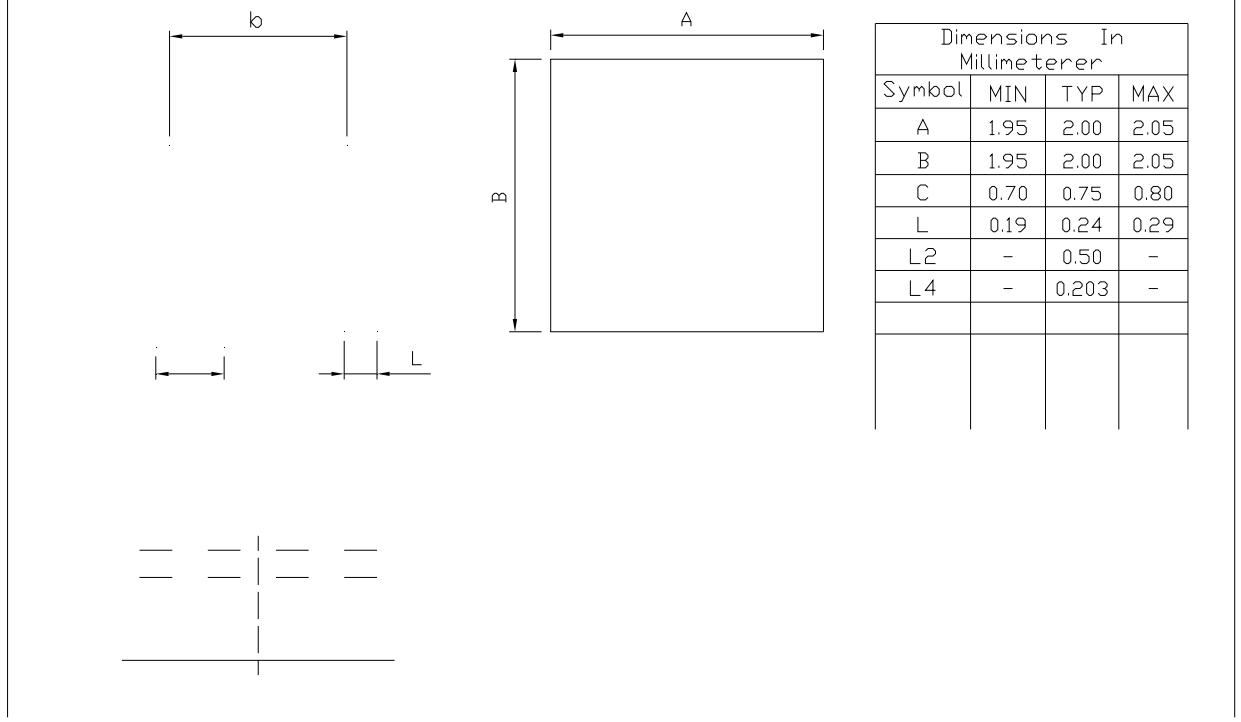
Timing Chart

Discharge Overcurrent Normal Operation.



/ Package Dimensions

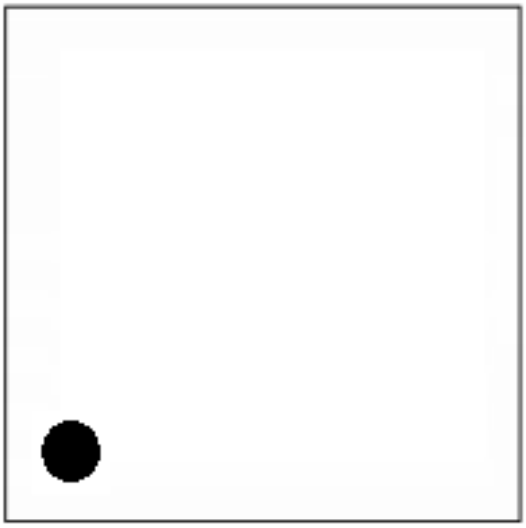
DFN2 2-8L-0.75 Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	1.95	2.00	2.05
B	1.95	2.00	2.05
C	0.70	0.75	0.80
L	0.19	0.24	0.29
L2	-	0.50	-
L4	-	0.203	-

Rev.00 202012

/ Marking Instructions



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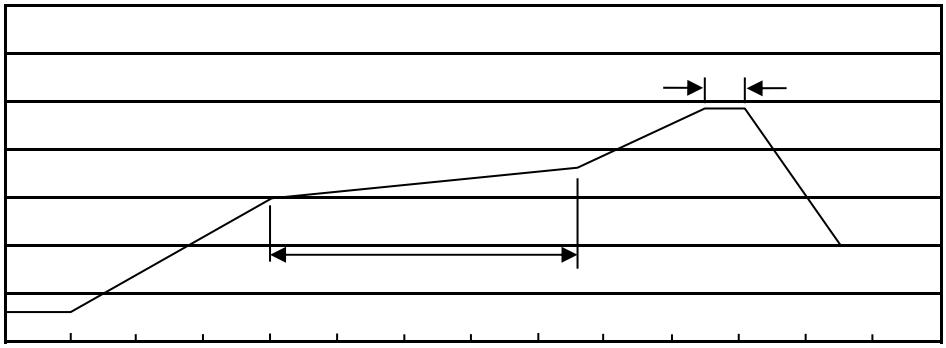

± ± ± ±

/ Resistance to Soldering Heat Test Conditions

± ±

/ Packaging SPEC.

	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box

/ Notices