

/ Descriptions

BRCL3130DZZ MOSFET
MOSFET

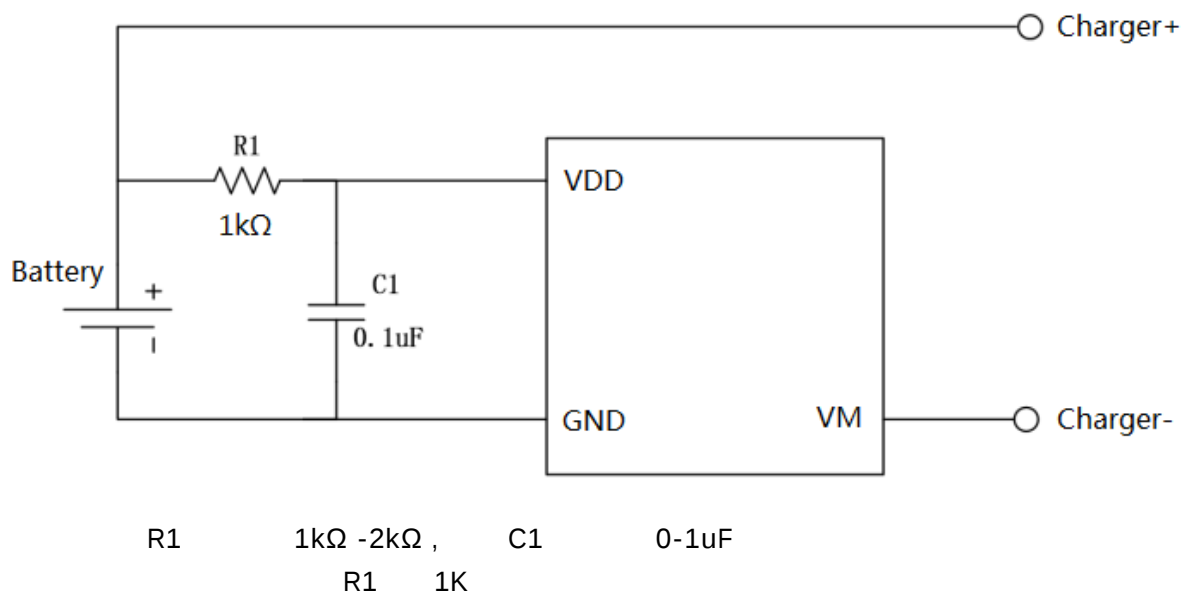
BRCL3130DZZ DFN2×2-8L

/ Features

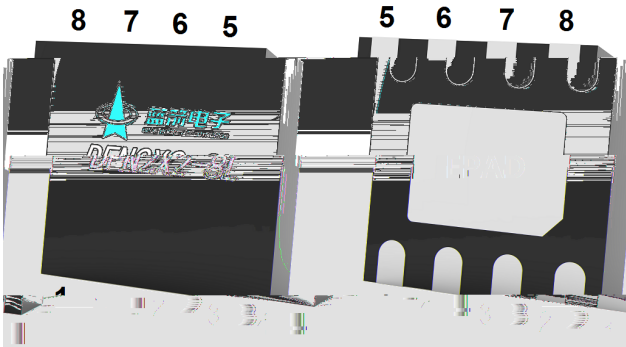
- ◆ 16mΩ MOSFET
- ◆ DFN2×2-8L
- ◆
- ◆
- ◆ 3.5 μA
- ◆ 0.6 μA
- ◆

/ Applications

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

/ Typical Application

/ 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)

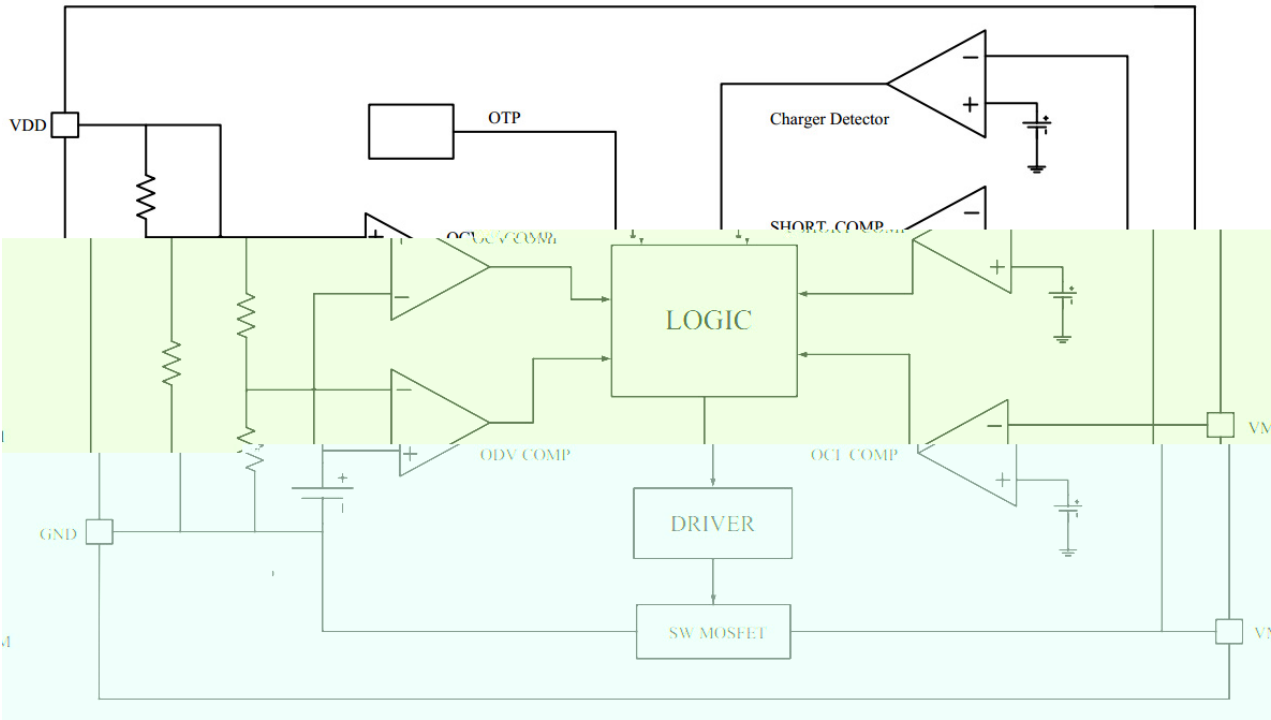
/ Electrical Characteristics(Unless otherwise specified,Ta=25)

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

FunctionI 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			(V _{OCV})	

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

V_M

(V_{ODV})

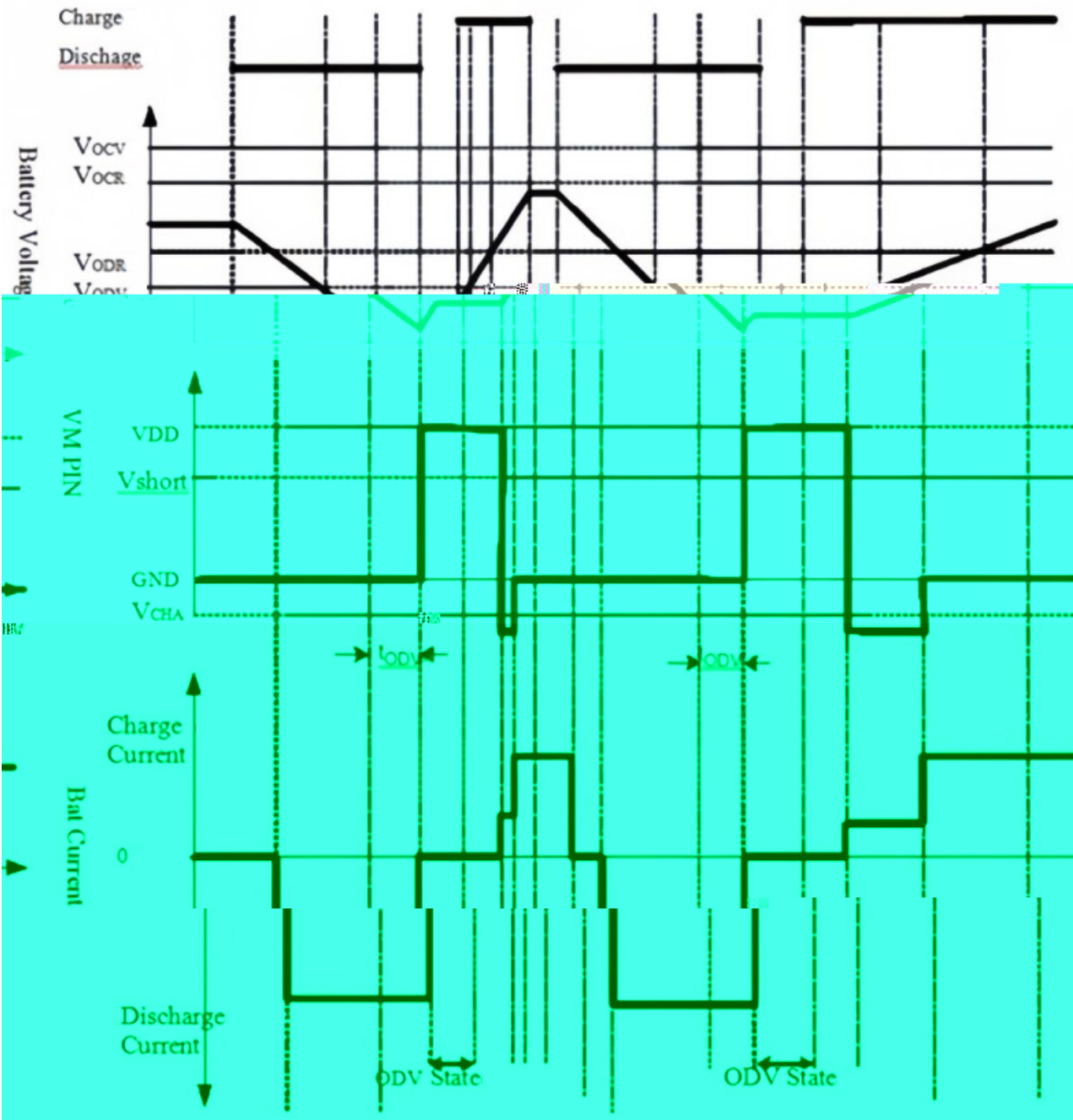
BRCL3130DZZ

(V_{CHA})

0V Battery Charging Function

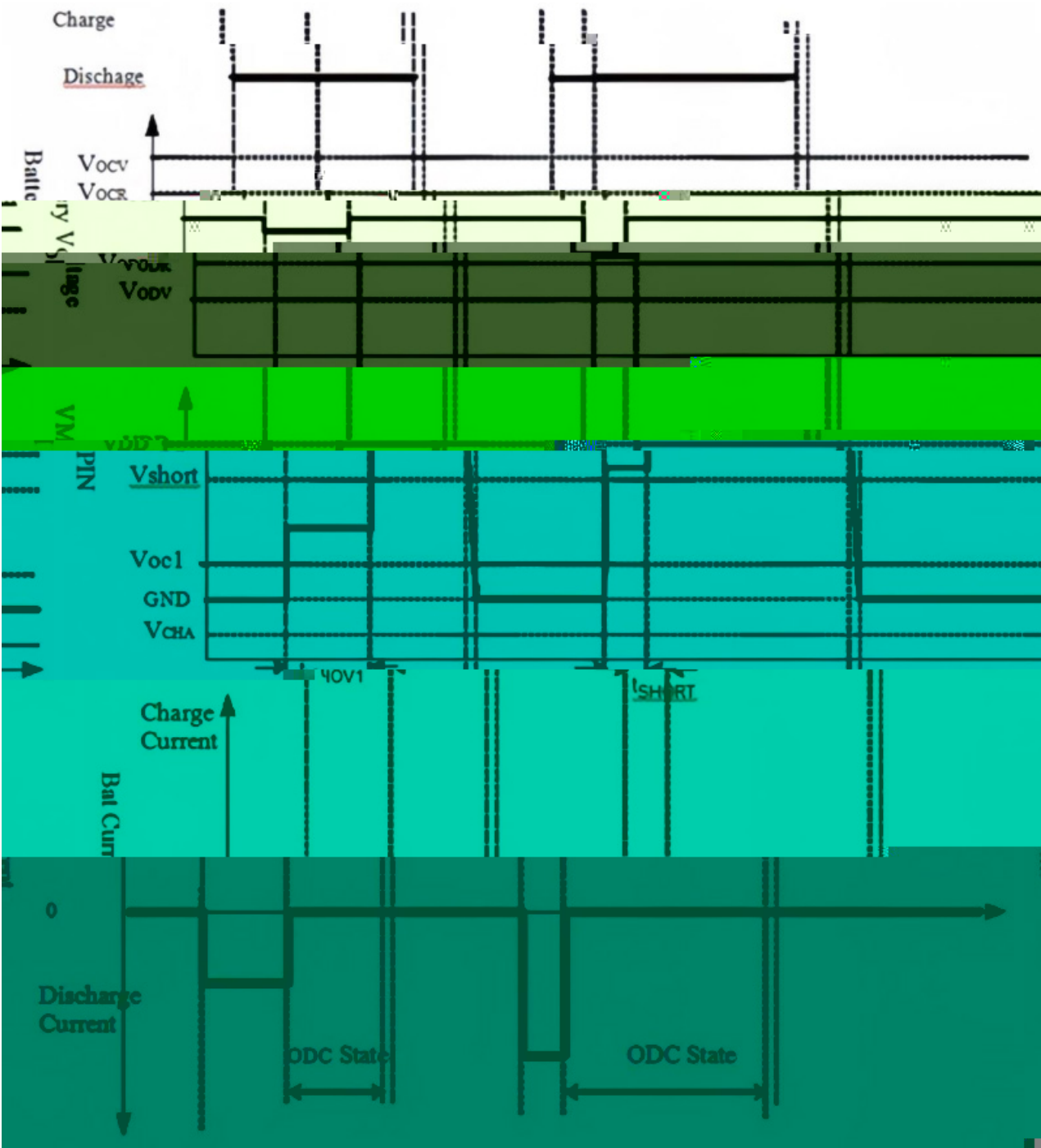
Timing Chart

Overdischarge Charging Normal Operation.



Timing Chart

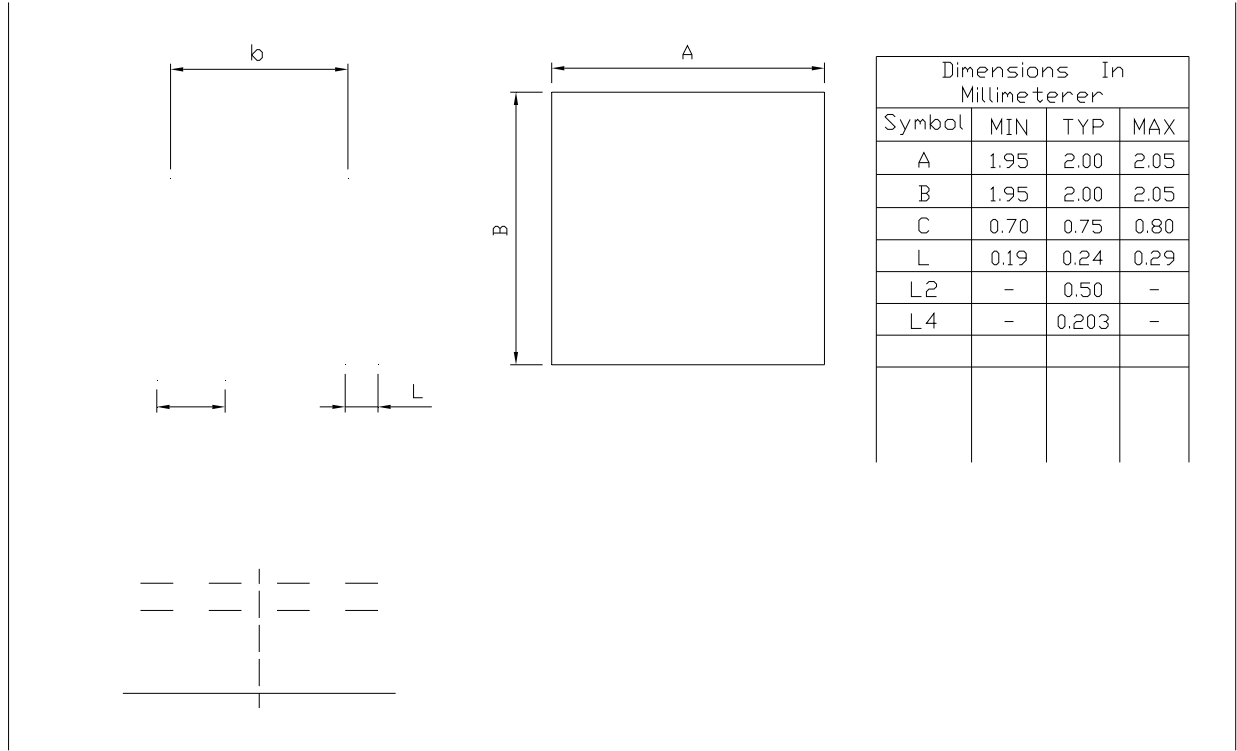
Discharge Overcurrent Normal Operation.



/ Package Dimensions

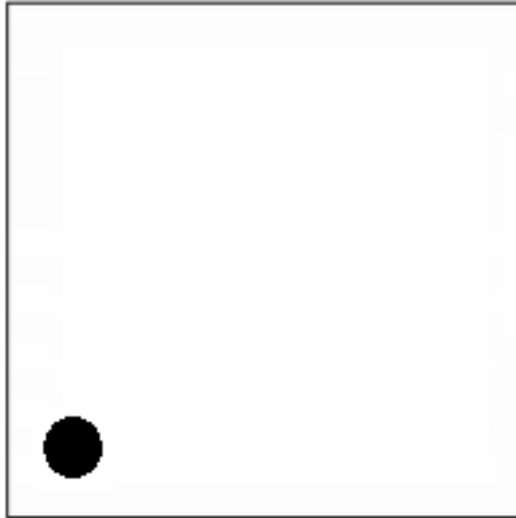
DFN2 2-8L-0.75

Unit:mm



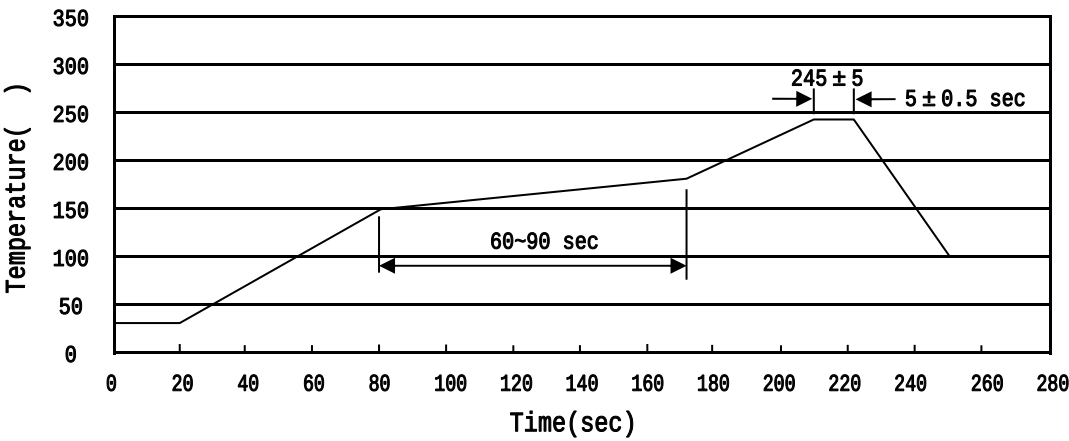
Rev.00 202012

/ Marking Instructions



3130D

() /



± ± ± ±

/ 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