

B	2018-4				
C	2019-3-7	1			
D	2020-11-9	1 3 4	4057 VBAT 4.158~4.242V		

/ Descriptions

BRCL3550MF

BRCL3550MF

/ Features

4.20V $\pm$ 1%

/ /

7V

0V

C/10

1uA

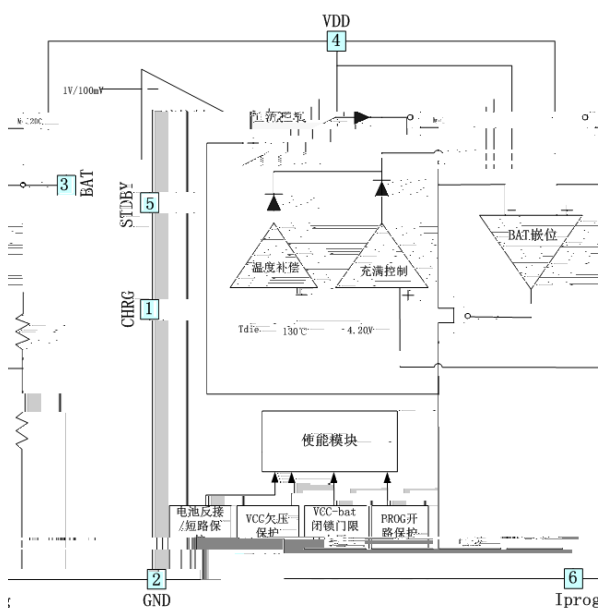
BAT-VDD

USB

/ Applications

BRCL3550MF

USB





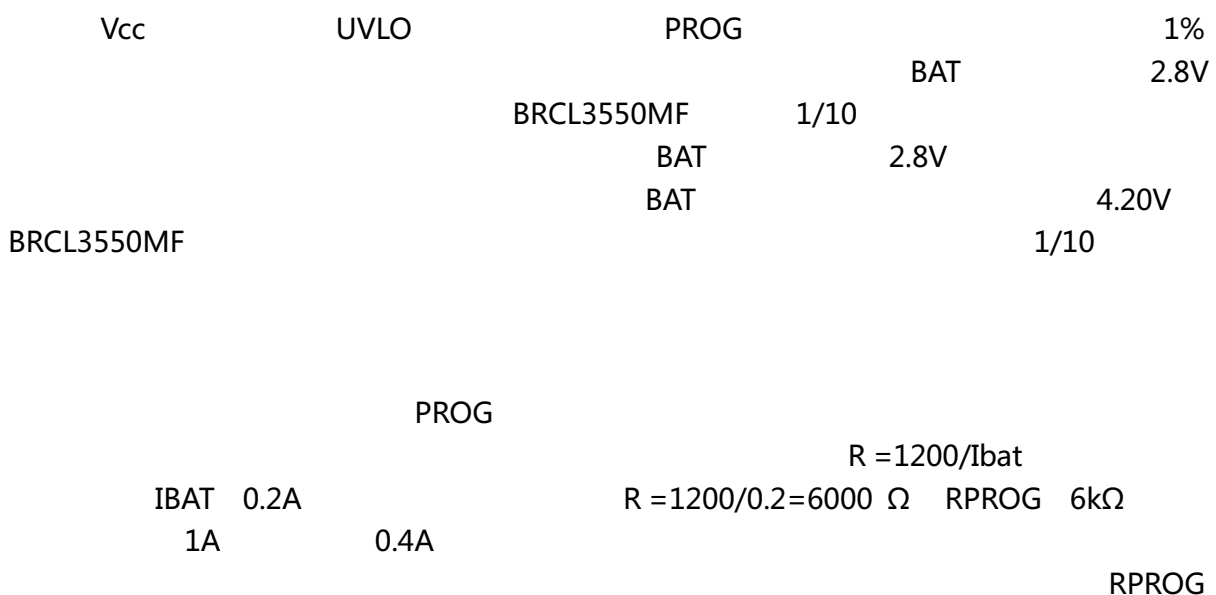
CHRG	1	



Electrical Characteristics(		Ta=25	GND	0
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
	V _{IN}		4.0	5.0	7.0	V
V _{IN}	V _{IN}	V _{in} >BAT		100		mV
V _{IN}		V _{in} >BAT		30		mV
	V _{float}	V _{DD} =5V	4.158	4.20	4.242	V
BAT	I _{bat}	V _{cc} =3.5V, V _{bat} =4.2V		±0.5	±5.0	μA
	V _{TRKL}	V _{BAT}		2.8		V
	V _{TRHYS}			100		mV
V _{cc}	V _{UV}	V _{cc}		3.7		V
V _{cc}	V _{UVHYS}			200		mV
	V _{msd}			1.2		V
	V _{msdHYS}			50		mV
PROG	V _{prog1}			0.1		V
PROG	V _{prog2}			1.0		V
	OTR	V _{DD} =5V		130		°C

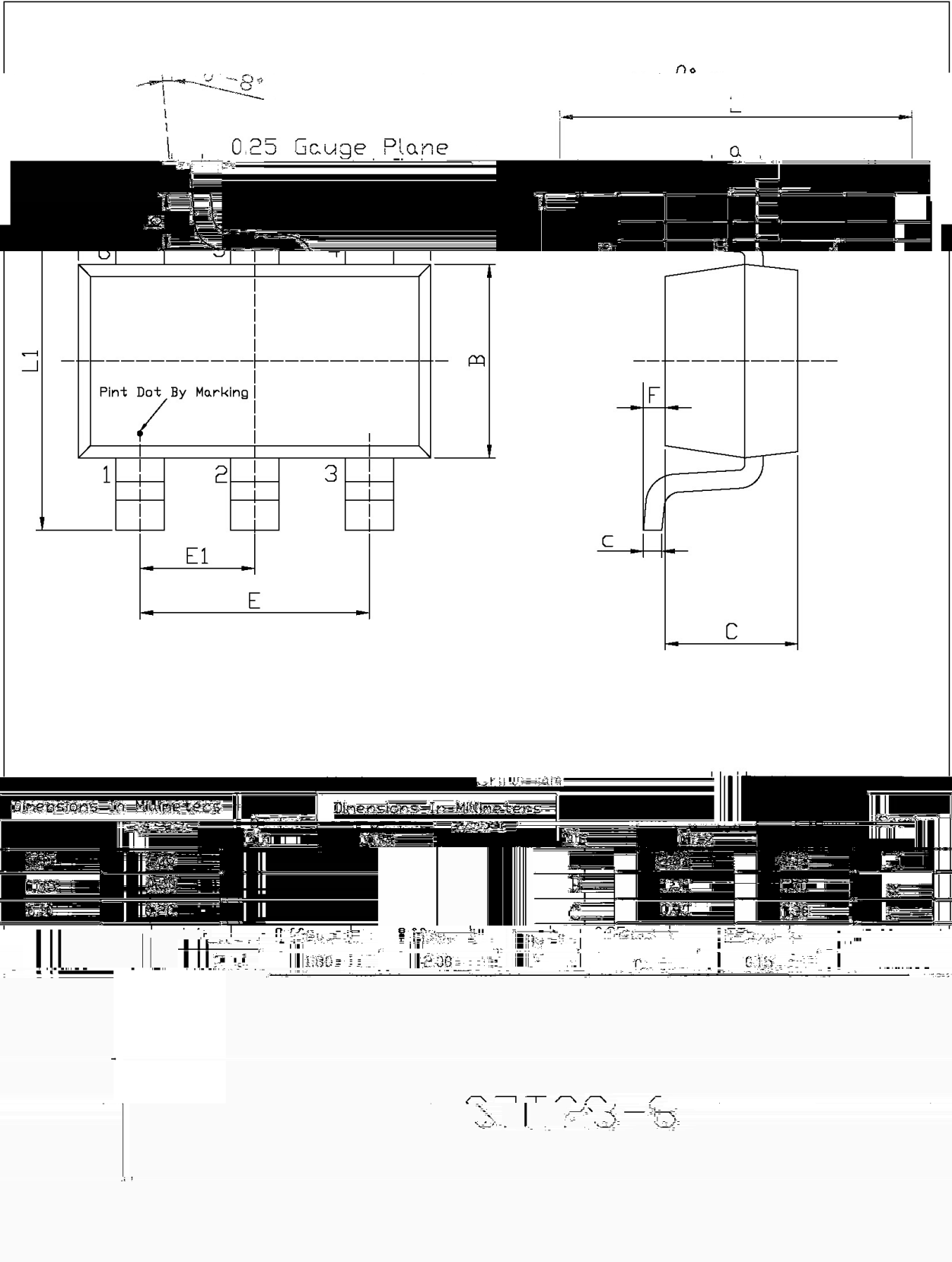
/ Application Message



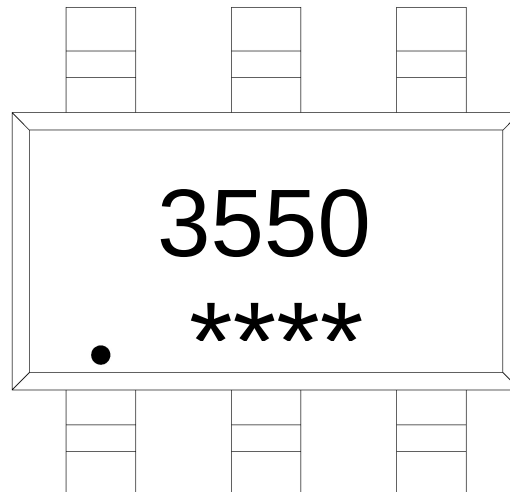
/ Application Message

The diagram illustrates a battery management system (BMS) for a 130Ah battery. The BMS module, labeled 'BRCL3550MF', is connected to the battery. The BMS module has several pins: VDD, GND, Vbat, GND, Vprog, and Vfloat. The BMS module is connected to a MOSFET, which is connected to the battery. The MOSFET has a gate connected to Vprog, a drain connected to the battery, and a source connected to GND. The BMS module also has a pin labeled 'LED'. The BMS module is labeled 'BRCL3550MF'.

/ Package Dimensions



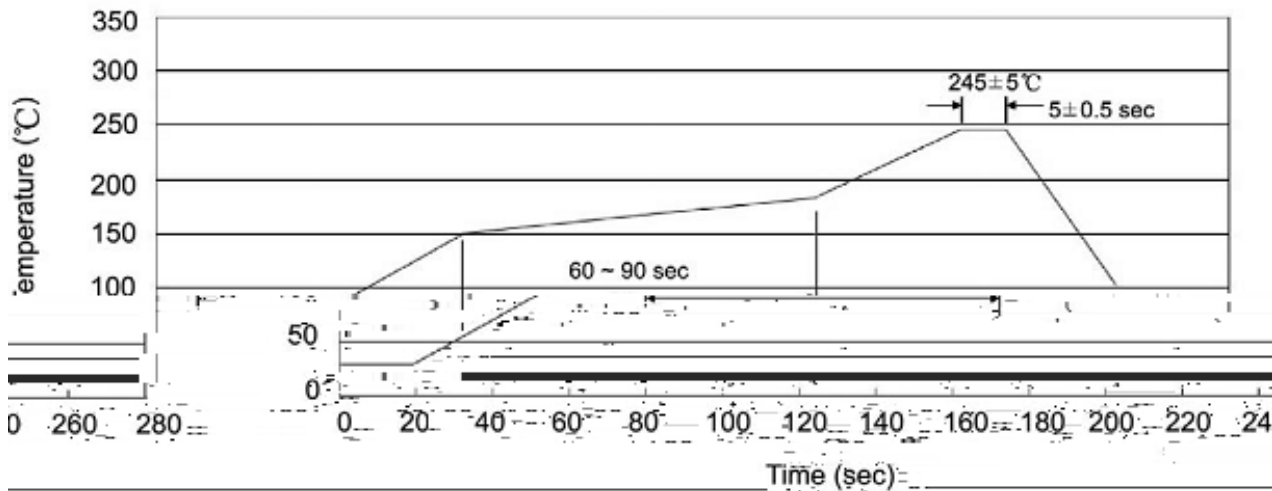
/ Marking Instructions



•	PIN1
3550	

Note:	
•	PIN1 Mark
3550:	Product Type Code.
****:	Lot No. Code, code change with Lot No.

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | |
|---|---------|-----------|---|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245 5 | 5 0.5sec; | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box	Outer Box
SOT23-5/6	3,000	10	30,000	4	120,000	7" ×8	210×205×205	445×230×435

/ Notices