

/ Descriptions

BRCL4058FZR	DFN3×3-8L				
BRCL4058FZR	/			BRCL4058FZR	
		USB		BRCL4058FZR	
PMOSFET					4.2V
	PROG	1.2A		USB	
BRCL4058FZR		3uA	BRCL4058FZR		

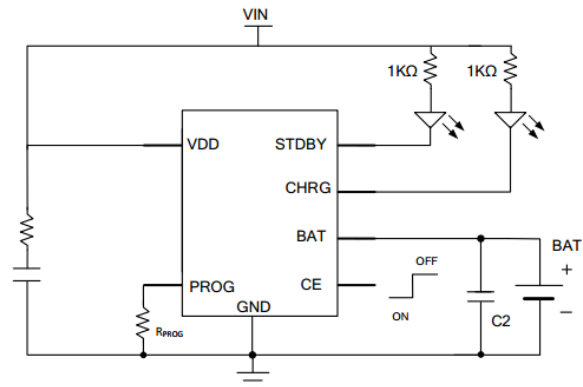
/ Features

- ◆ 30 V 6.9 V
- ◆ 4.2 V ±42 mV
- ◆ <3uA
- ◆ BAT-VDD
- ◆ 0V
- ◆ 1.2 A
- ◆ / /
- ◆
- ◆
- ◆
- ◆
- ◆
- ◆ IEC62368
- ◆ DFN3×3B-8L

/ Applications

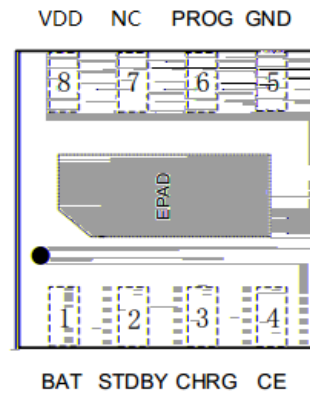
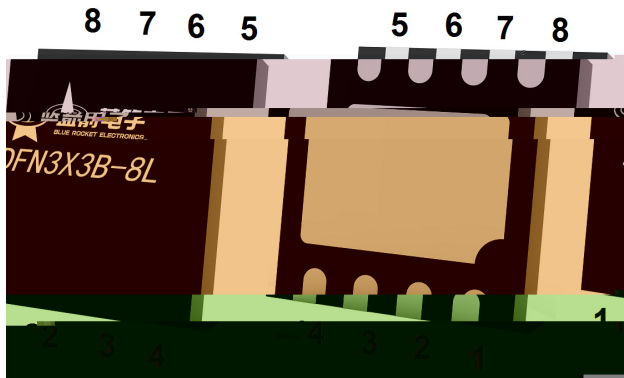
- ◆
- ◆
- ◆

/ Application Circuit



注 1: 建议取值 (C1/C2 为 1—10uF)

/ Pinning



PIN Num.	Symbol	Function
1	BAT	
2	STDBY	
3	CHRG	
4	CE	
5	GND	
6	SUR J	
7	NC	
8	VDD	
EPAD	GND	GND

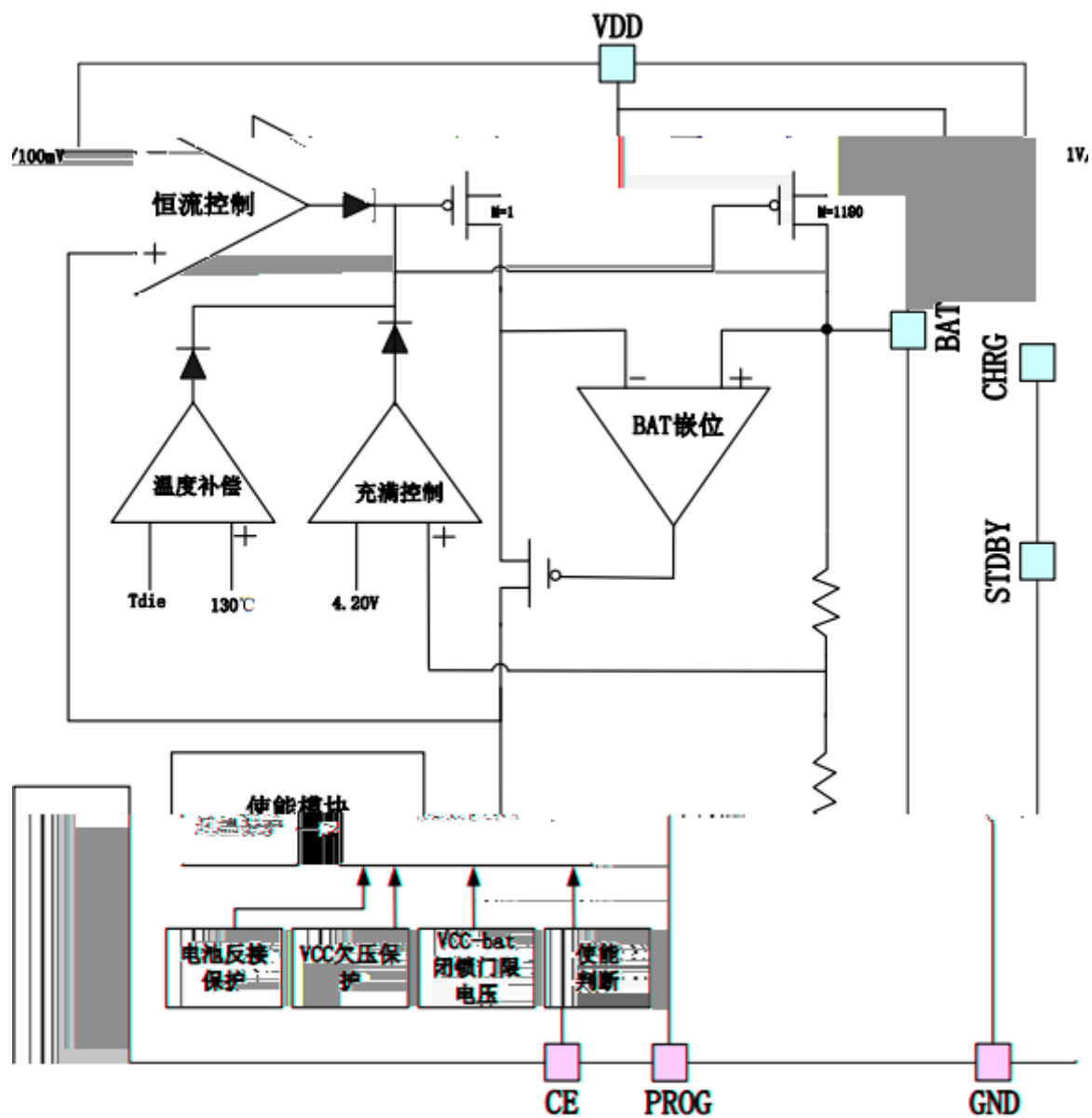
/ Absolute Maximum Ratings(Ta=25)

PARAMETER	SYMBOL	RATINGS	UNITS
Input Supply Voltage	V _{DD}	-0.3~30	V
CHRG Pin Voltage	V _{CHRG}	-0.3~30	
STDBY Pin Voltage	V _{STDBY}	-0.3~30	
CE Pin Voltage	V _{CE}	-0.3~6	
PROG Pin Voltage	V _{PROG}	-0.3~6	
BAT Pin Voltage	V _{BAT}	-0.3~20	
Operating Ambient Temperature Range	T _A	-40~85	°C
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55~150	°C
Lead Temperature (Soldering, 10s)	T _{solder}	260	°C
ESD	HBM	2000	V

	UNITS
	V
	V
	mV
	V
	mV
	uA

K , or VDD

/ Principle block diagram



/ Function description						
BRCL4058FZR	/			BRCL4058FZR		
USB	AC	1.2 A	30 V			
6.9 V						
◆						
V _{DD}	UVLO	PROG	BAT	1%		
		BRCL4058FZR	1/10	V _{TRKL}		
		BAT	V _{TRKL}			
		BAT	V _{FLOAT}			
BRCL4058FZR			1/10			
◆						
		PROG				
		R _{PROG} kΩ =1180/I _{BAT} mA				
		0.5 A	R _{PROG}			
		BRCL4058FZR				
◆						
BRCL4058FZR			BRCL4058FZR			
BRCL4058FZR			LED			
0.5 mA			BRCL4058FZR			
BRCL4058FZR	BRCL4058FZR		BAT			
BRCL4058FZR			BAT			
		BAT	BRCL4058FZR			
		10 V				
◆						
BRCL4058FZR	CHRG STDBY					
CHRG	STDBY	CHRG	STDBY			

	CHRG	STDBY
VDD		

/ Function description



130%BRCL4058FZR

BRCL4058FZR



UVLOV_{DD}V_{DD}200 mV

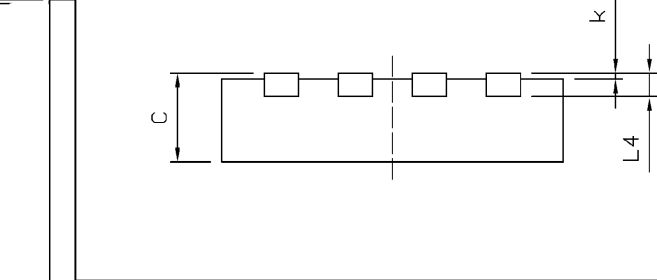


BRCL4058FZR1.8 msTECHARGE
BAT4.05 V
80 90

/ Package Dimensions

DFN3X3B-8L

Unit:mm

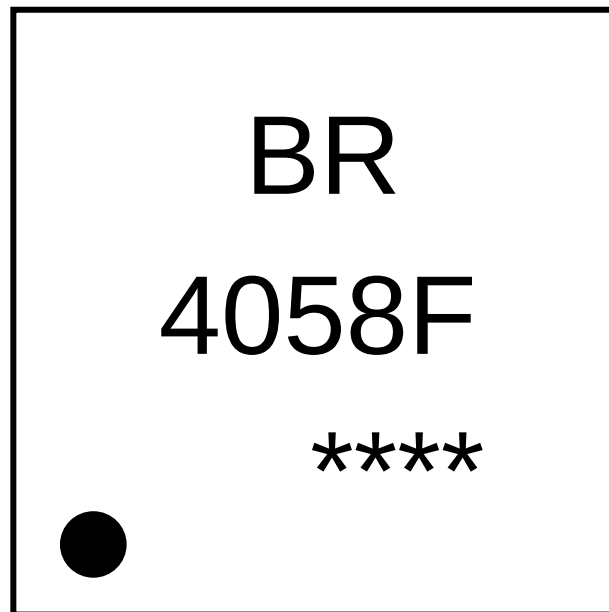


k	0.00	-	0.05
l	0.35	0.40	0.45

2006

Rev.00 202

/ Marking Instructions



BR

738 ; I

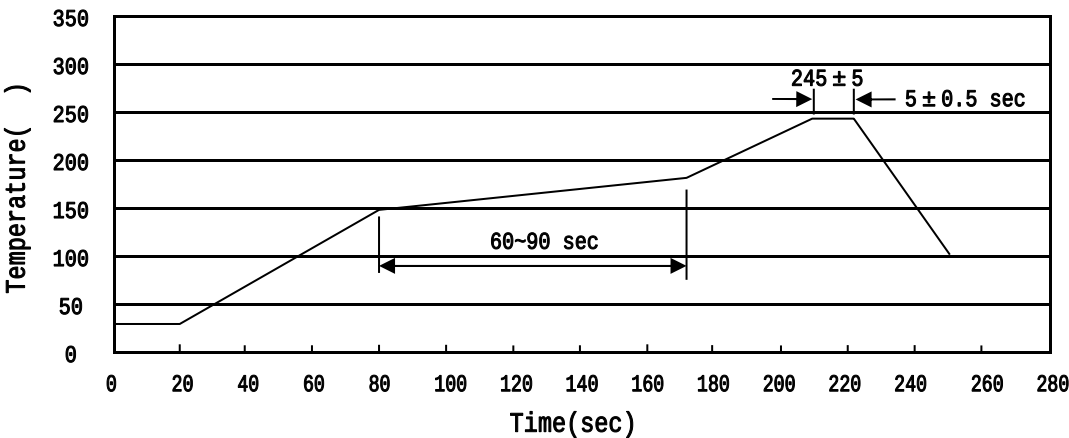
Note:

BR: Company Code

4058F: Product Type

****: 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)		
DFN3×3B-8L	5,000	2	10,000	6	60,000	13 ×12	360×360×50	380×335×366

/ Notices