

Y / Descriptions

BRCL4058MME-4.2	30V	OVP	500mA
/			
BRCL4058MME-4.2	P-MOSFET		
4.2V			
BRCL4058MME-4.2			0.1uA
BRCL4058MME-4.2			
BRCL4058MME-4.2	USB		

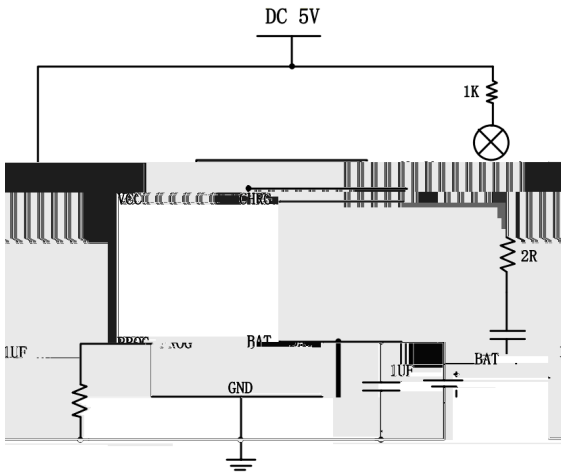
• / Features

	30V
6.8V	OVP
30mA-500mA	
/	
±1%	
2.8V	
C/10	
BAT	
SOT23-5	
RoHS	

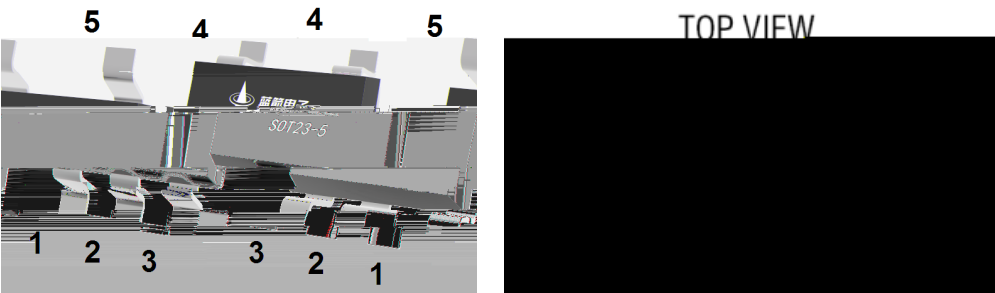
z v / Applications

GPS

z v ε / Application Circuit



Pinning



PIN Num.	Symbol	Function
1	CHRG	
2	GND	
3	BAT	
4	VCC	
5	PROG	

Absolute Maximum Ratings(Ta=25)

PARAMETER	SYMBOL	RATINGS	UNITS
VCC/CHRG Pin Voltage	V _{VCC/CHRG}	-0.3~30	V
BAT Pin Voltage	V _{BAT}	-5~13	
PROG Pin Voltage	V _{PROG}	-0.3~6	
Operating Ambient Temperature Range	T _{OP}	-40~+85	°C
Storage Temperature	T _{stg}	-55~+150	°C
Lead Temperature (Soldering, 10s)	T _{solder}	260	°C
Junction-to-Ambient	R _{θJA}	240	/W
ESD	HBM	2000	V
	MM	200	V

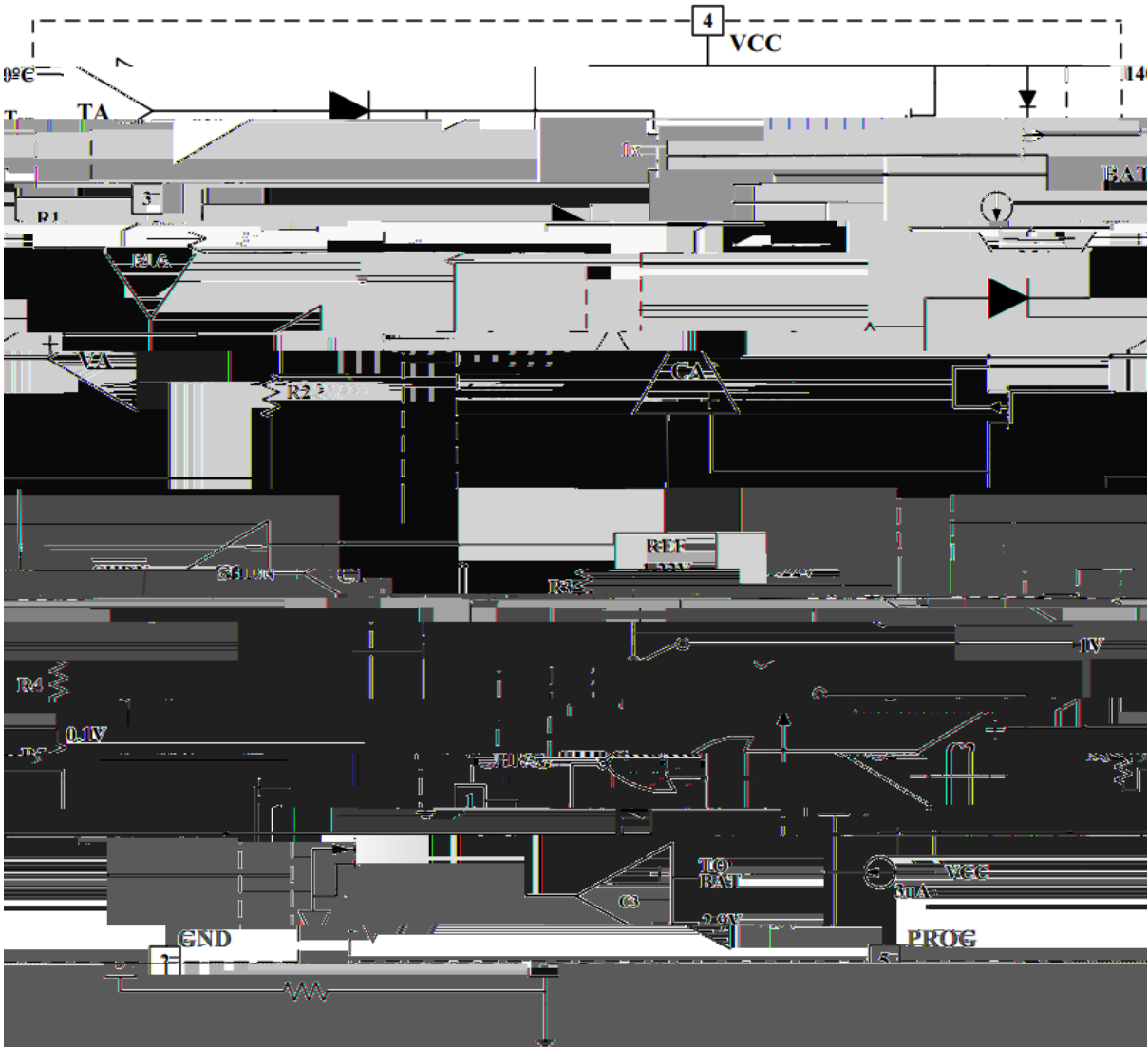
Electrical Characteristics(Ta=25)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Supply Voltage	V _{CC}			5.0		V
Maximum of Input Supply Voltage	V _{CC_MAX}				30	V
Input Over-Voltage Protection Voltage	V _{OVP}	V _{CC} from Low to High		6.8		V

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Power Supply OVP Hysteresis Voltage	V_{OVP_HYS}			500		mV
Input Power Supply Current	I_{CC}	Charging mode ($R_{PROG}=10K$)		300		μA
		Standby mode, charging terminated		100		μA
		Shutdown mode (R_{PROG} not connected, $V_{CC}<V_{BAT}$ or $V_{CC} < V_{UV}$)		60		μA

1 3 A

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Recharge Comparator Filtering Time	$T_{RECHARG}$	V_{BAT} from High to Low		1		mS
Terminate the comparator filtering time	T_{TERM}	I_{BAT} drop to below $I_{CHARGE}/10$		2.5		mS
PROG pin pull-up current	I_{PROG}			0.3		μA



型号 / 规格

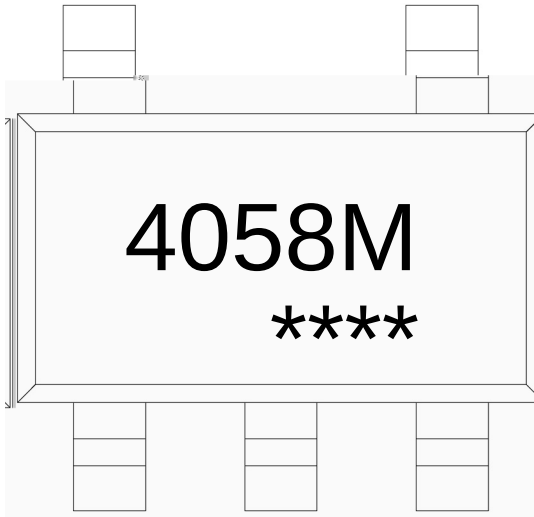
BRCL4058MME-4.2 /

500mA BRCL4058MME-4.2

功能描述 / Function description

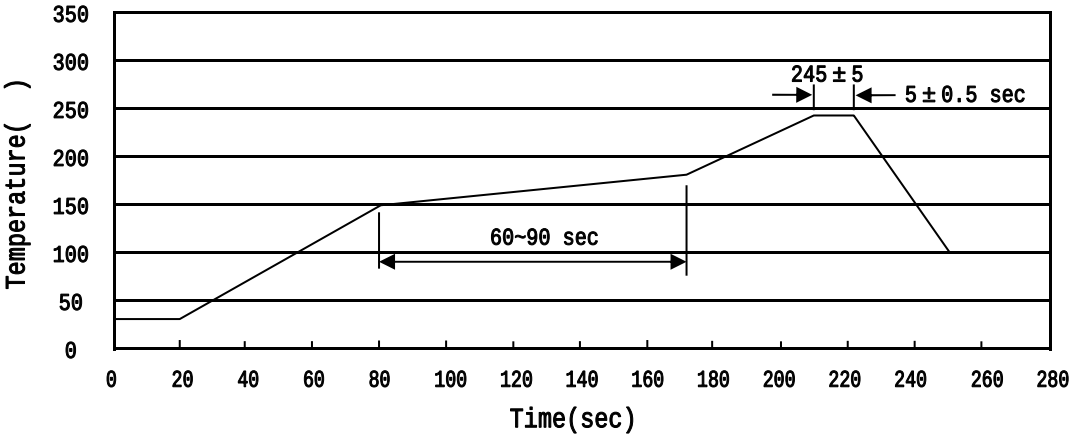
140	BRCL4058MME-4.2	BRCL4058MME-4.2
UVLO	VCC	VCC
200mV		
BRCL4058MME-4.2	R _{PROG}	PROG
0.1μA		60μA
BRCL4058MME-4.2	1ms	BAT
V _{RECHRG}		
CHRG		

4. 1. 2 / Marking Instructions



4058M

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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 ~ / ~	Reels/Inner Box ~ /	Units/Inner Box ~ /	Inner Boxes/Outer Box /	Units/Outer Box ~ /	Reel	Inner Box	Outer Box
SOT23-5/6	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×435×230

Notices