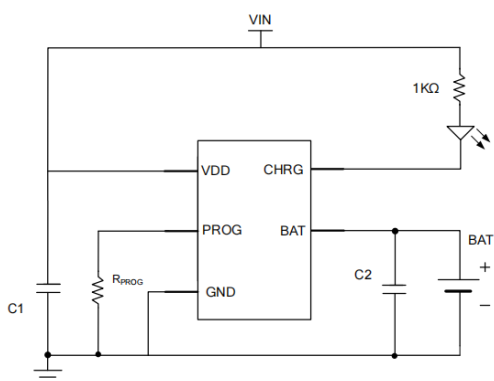


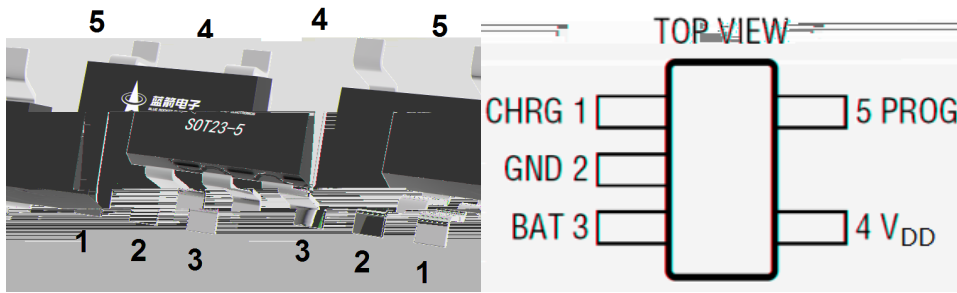
BRCL4058HME-XX	/	
BRCL4058HME-XX		MOSFET
	4.0/4.2/4.35V	ISET
	1/10	BRCL4058HME-XX
BRCL4058HME-XX		1

μA

- ◆ 28V
- ◆ 15V
- ◆ 6.5V
- ◆
- ◆ 800mA
- ◆ 1% 4.0/4.2/4.35V
- ◆
- ◆ MOSFET
- ◆
- ◆ SOT23-5
- ◆ RoHS

- ◆
- ◆
- ◆
- ◆



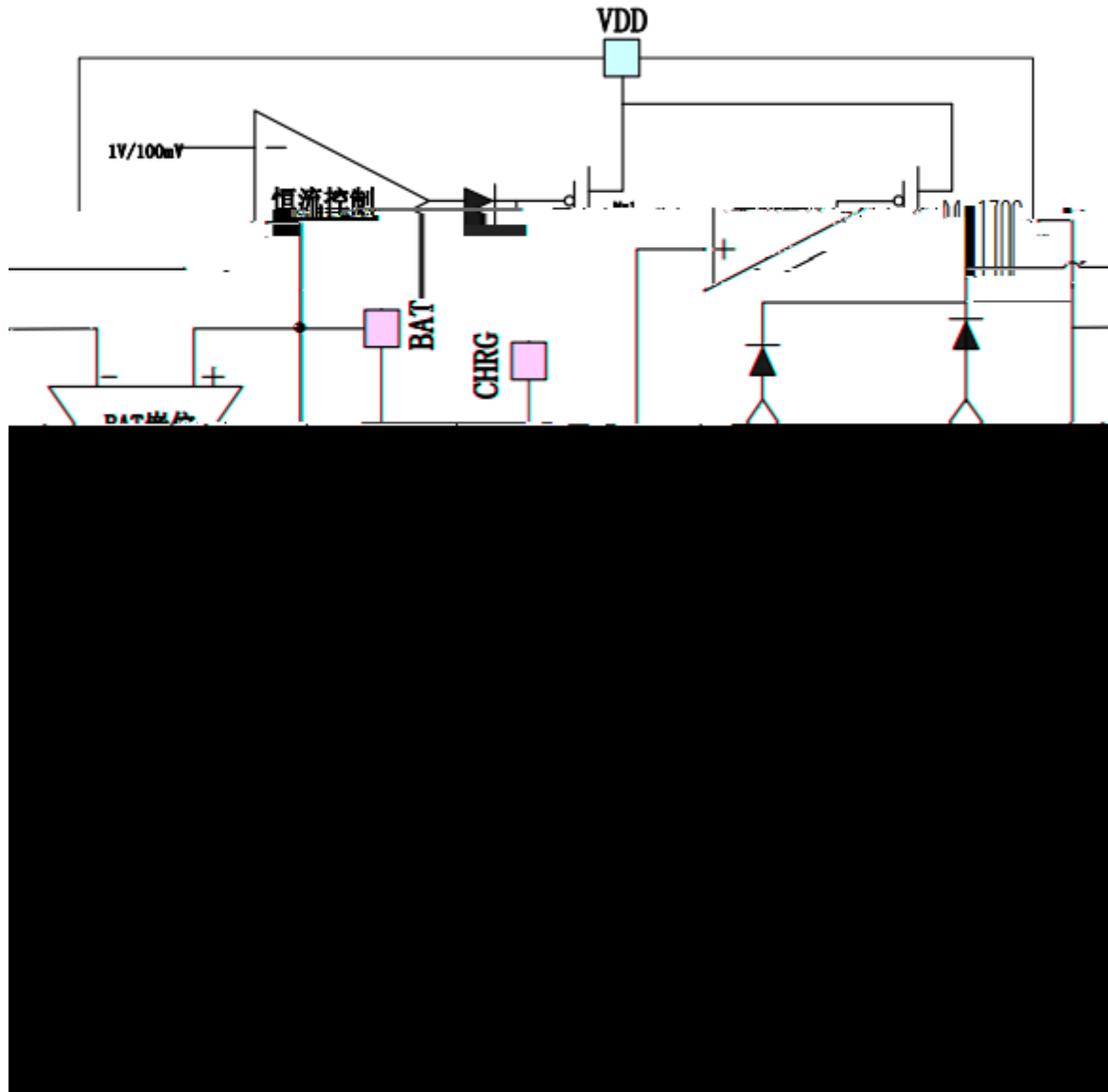


1	CHRG	
2	GND	
3	BAT	
4	V _{DD}	
5	PROG	

BRCL4058HME-XX		
XX	4.0	4.0V

Input Supply Voltage	V _{IN}	-0.3~28	V
BAT Pin Voltage	V _{BAT}	-0.3~15	
Other Pin Voltage	V _{Other}	-0.3~6.5	
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
	MM	200	V
Continuous Output Current	I _o	800	mA

Input Supply Voltage	V_{IN}		4.5	5.0	6.0	V
Input Power Supply Current	I_{IN}	$V_{BAT} = V_{FLOAT} + 0.1V$		90		A
Input Over-Voltage	V_{ovp}	V_{IN} from Low to High		6.5		V
Input Over-Voltage Protection Voltage Hysteresis	V_{OVP}			300		mV
V_{IN} Under Voltage Lockout Threshold	V_{UVL}	V_{IN} from High to Low $V_{BAT} = 2.7V$		3.3		V
V_{IN} Under voltage Lockout Hysteresis	V_{UVL}			100		mV
Regulated Output (Float) Voltage	V_{FLOAT}	$I_{BAT} = 40mA$	3.96	4.0	4.04	V
			4.158	4.2	4.242	
			4.307	4.35	4.394	
Recharge Battery Threshold	V_{RECHRG}	$V_{FLOAT} - V_{RECHRG}$		150		mV
BAT Pin Current	I_{BAT}	$R_{ISET} = 17k$, Constant Current Mode		100		mA
		$R_{ISET} = 3.4k$, Constant Current Mode		500		mA
		$R_{ISET} = 2.1k$, Constant Current Mode		800		mA
		$V_{BAT} = V_{FLOAT}$, Standby Mode		2.5		A
		Shutdown Mode ($V_{BAT} = V_{FLOAT}$, RPROG not Connected / $V_{IN} = 0$)		0.1		A
		Battery Reverse Connection ($V_{BAT} = -V_{FLOAT}$, $V_{IN} = 0$)		2		mA
Trickle Charge Threshold	V_{TRIKL}	V_{BAT} from Low to High		2.6		V
Trickle Charge Hysteresis	V_{TRIKL}			200		mV
Trickle Charge Current	I_{TRIKL}			10		% I_{BAT}
Termination Current Threshold	I_{EOC}			10		% I_{BAT}
CHRG/FULL Pin Pull-Down Current	I_{CHRG}	$V_{CHRG} = 5V$			5	A
CHRG/FULL Pin Output Low Voltage	V_{CHRG}	$I_{CHRG} = 5mA$			0.1	V
ISET Pin Voltage	V_{ISET}	$R_{ISET} = 10k$, Constant Current Mode		1		V
$V_{IN} - V_{BAT}$ Locking Threshold Voltage	V_{ASD}	$V_{BAT} = 3.6V$ $V_{IN} = 3.5V \ 4V$		110		mV
		$V_{BAT} = 3.6V$ $V_{IN} = 4V \ 3.5V$		60		mV
Junction Temperature in Limited Temperature Mode	T_{LIM}			125		



- ◆

	3.3V	6.5V	IC	BAT	2.6V
			BRCL4058HME-XX	1/10 ISET	
ISET		BAT	2.6V		CC
CV		BAT		BRCL4058HME-XX	
		CV		1/10	

- ◆

			1/10		
	ISET		ISET	100mV	tTERM
1ms					

- ◆

		ISET			
	(V _{ISET} =1V)				
			$I_{BAT} = \frac{1700 \times V_{ISET}}{R_{ISET}}$		

- ◆

		BRCL4058HME-XX	BAT		
V _{FLOAT} -150mV		80%	90%		

- ◆

			VIN		
	UVLO		UVLO		VIN
110mV					

- ◆

	BRCL4058HME-XX				
	BAT	GND	300mV	BAT	GND
80mV					



BRCL4058HME-XX

CHRG

CHRG

CHRG

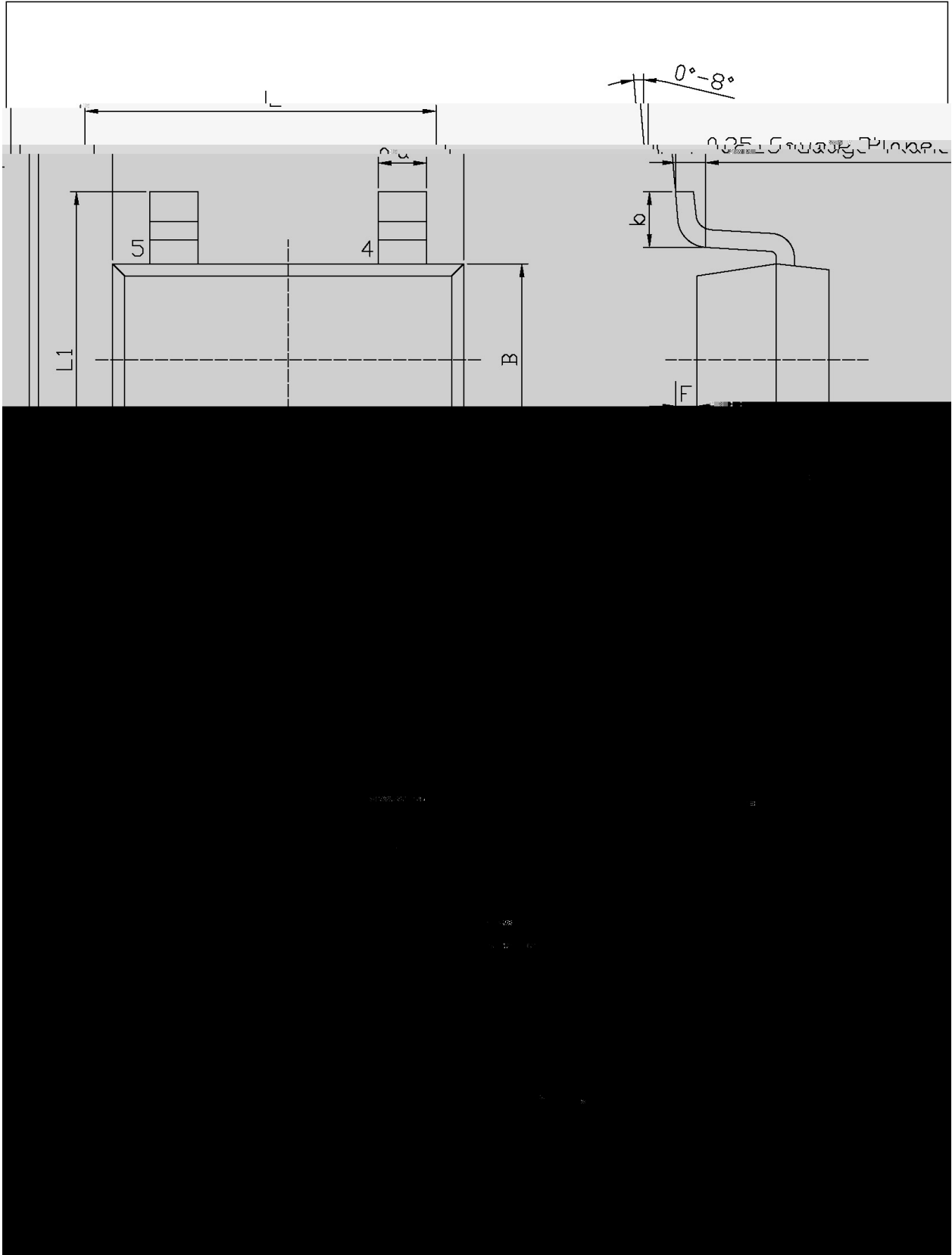
	CHRG
VDD	

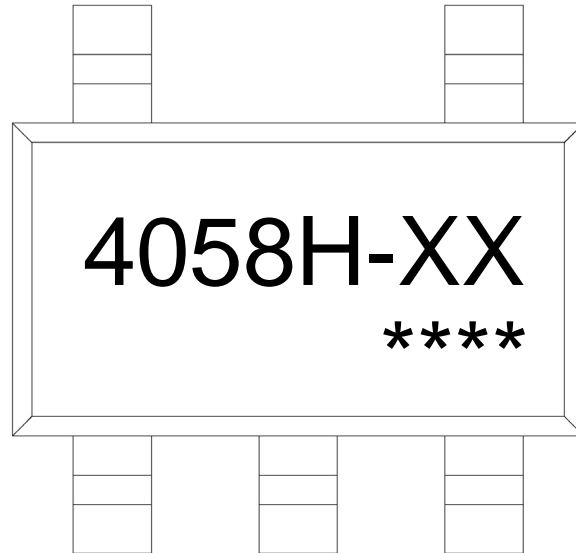


125

BRCL4058HME-XX

BRCL4058HME-XX

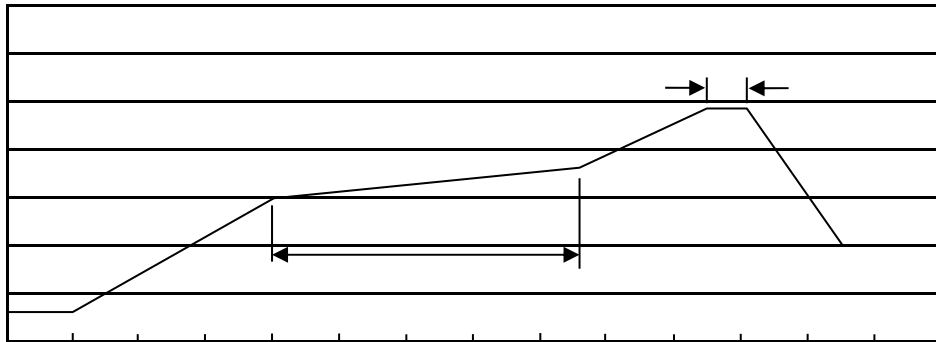




4058H

XX

BRCL4058HME-4.0	4058H-40/****
BRCL4058HME-4.2	4058H-42/****
BRCL4058HME-4.35	4058H-435/****

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. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ 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 x8	210x205x205	445x435x230