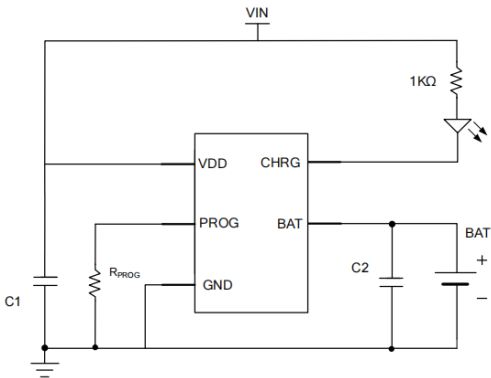


/ Descriptions			
BRCL4058HME-XX	/	MOSFET	
BRCL4058HME-XX			
	4.0/4.2/4.35V	ISET	
	1/10	BRCL4058HME-XX	
BRCL4058HME-XX			1
μA			

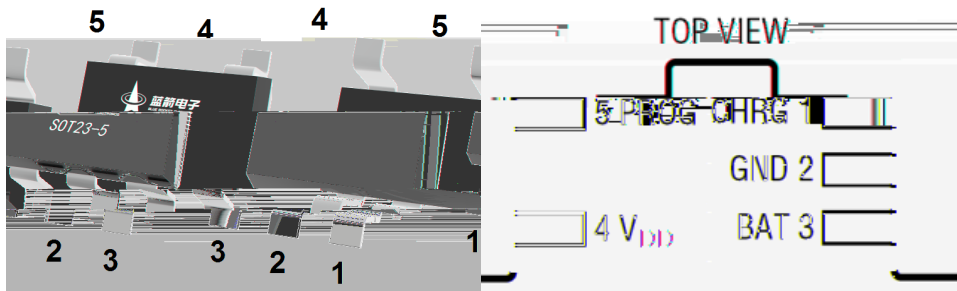
/ Features			
28V			
15V			
6.5V			
800mA			
1% 4.0/4.2/4.35V			
MOSFET			
SOT23-5			
RoHS			

/ Applications

/ Application Circuit



/ Pinning



PIN Num.	Symbol	Function
1	CHRG	
2	GND	
3	BAT	
4	V _{DD}	
5	PROG	

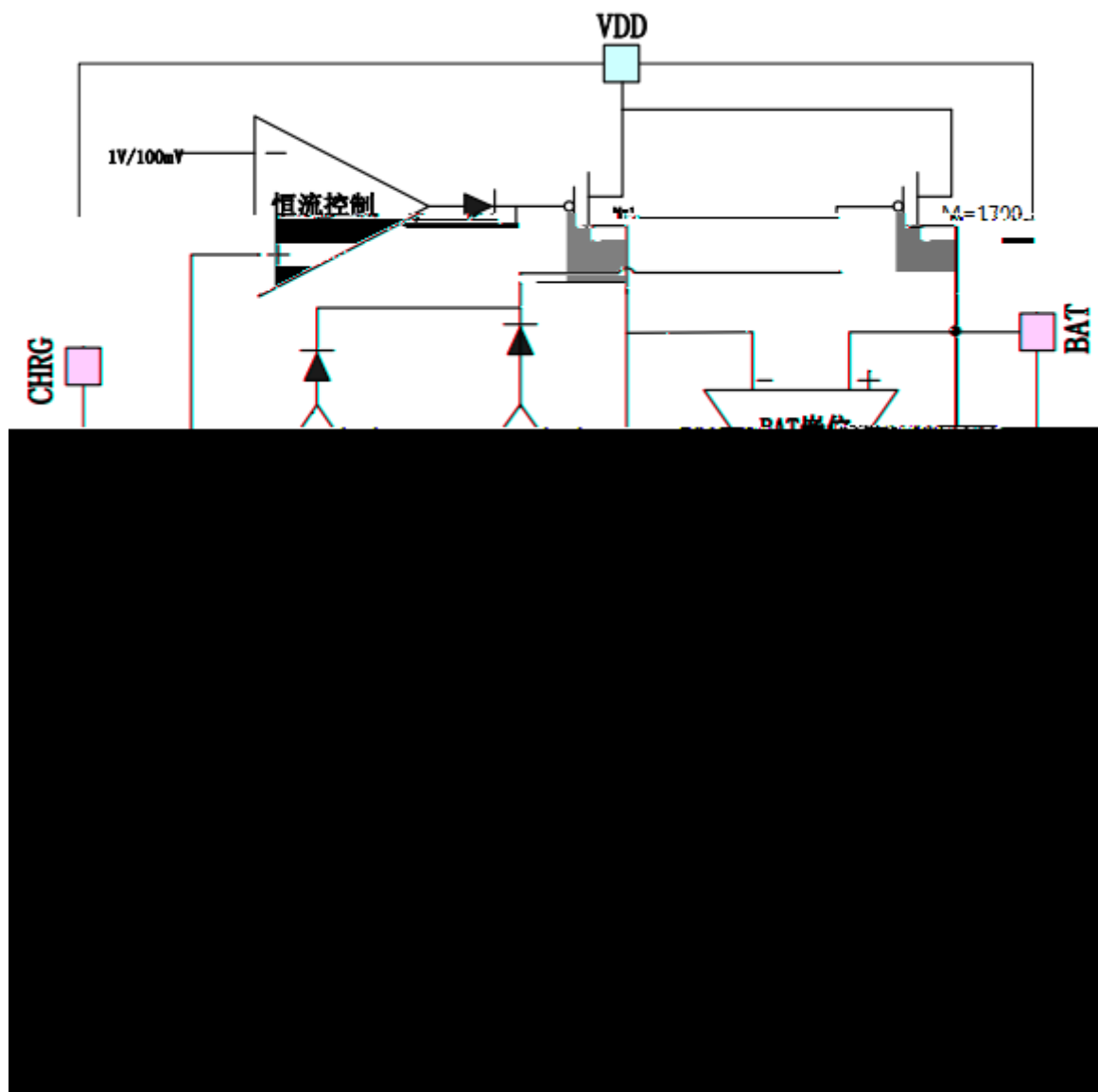
/ Part Name

BRCL4058HME-XX	
XX	4.0 4.0V

/ Absolute Maximum Ratings(Ta=25)

PARAMETER	SYMBOL	RATINGS	UNITS
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

/ Principle block diagram



/ Function description

	3.3V	6.5V	IC	BAT	2.6V
			BRCL4058HME-XX	1/10 ISET	
		BAT	2.6V		CC
ISET		BAT		BRCL4058HME-XX	
CV		CV		1/10	
			1/10		
	ISET		ISET	100mV	tTERM
1ms					
ISET					
		ISET			
(V _{ISET} =1V)					
			$I_{BAT} = \frac{1700 \times V_{ISET}}{R_{ISET}}$		
		BRCL4058HME-XX	BAT		
V _{Float} -150mV		80%	90%		
	UVLO				
			VIN		
	UVLO		UVLO		VIN
110mV					
			BRCL4058HME-XX		
	BAT	GND	300mV	BAT	GND
80mV					

/ Function description

CHRG FULL

BRCL4058HME-XX

CHRG

CHRG

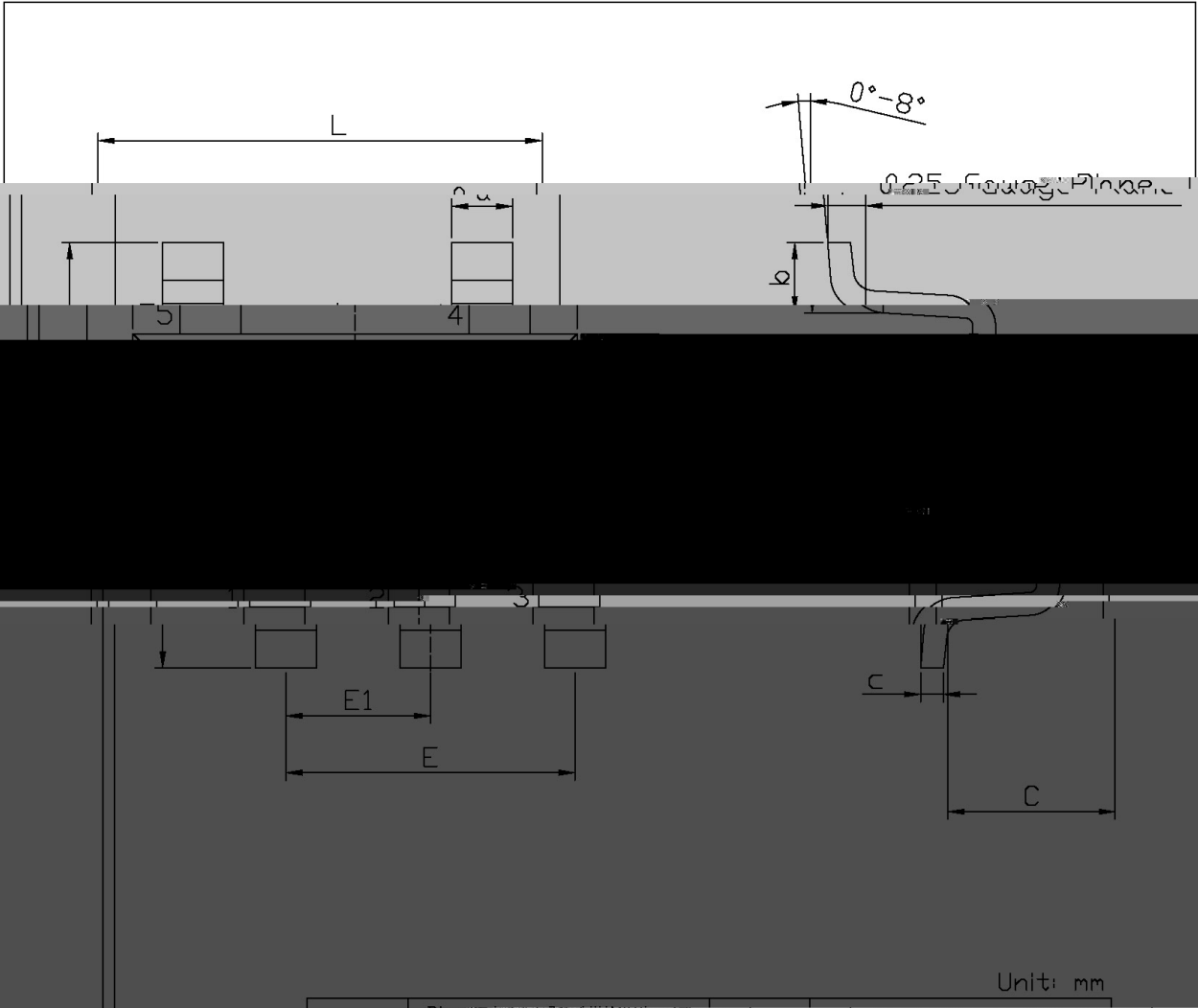
CHRG

	CHRG
VDD	

125

BRCL4058HME-XX
BRCL4058HME-XX

/ Package Dimensions

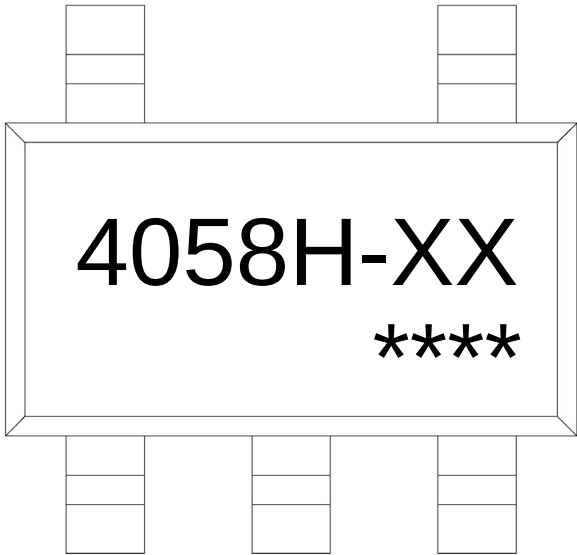


Unit: mm

Dimensions in Millimeters			Dimensions in Millimeters		
Symbol	Min	Max	Symbol	Min	Max
L	2.82	3.02	E1	0.85	1.05
B	1.50	1.70	a	0.35	0.50
C	0.90	1.30	c	0.10	0.20

E1	0.60	2.60	3.00	b	0.35	0.55
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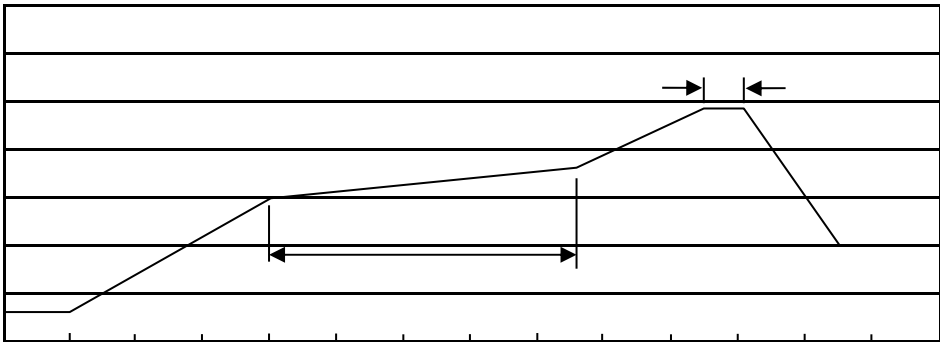
/ Marking Instructions



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. Preheating:150~180 , Time:60~90sec.

2. Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.
- 1 150 180 60 90sec;

2 245±5 5±0.5sec;

3 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)		
SOT23-5/6	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×435×230

/ Notices