

/ Descriptions

BRCL4058HME-XX	/		
BRCL4058HME-XX		MOSFET	
	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

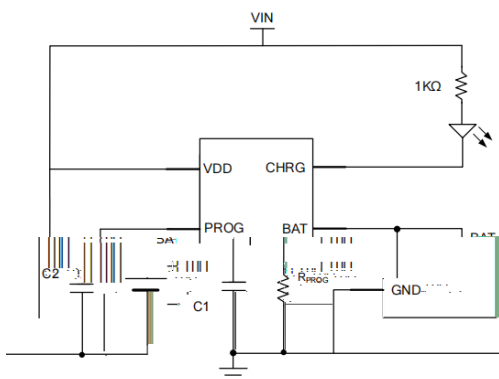
MOSFET

SOT23-5

RoHS

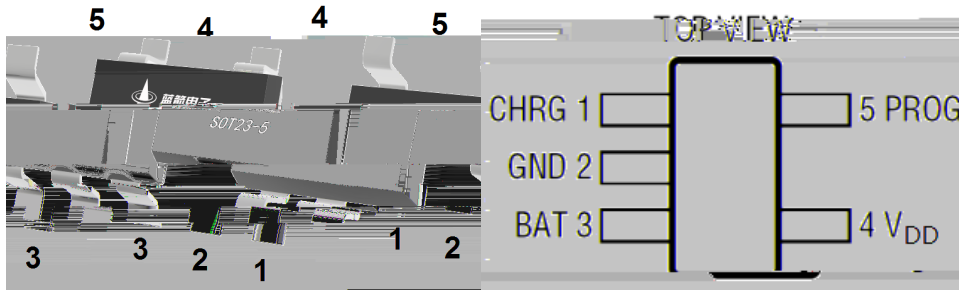
/ Applications

/ Application Circuit



BRCL4058HME-XX

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

/ Part Name

BRCL4058HME-XX	
XX	4.0 4.0V

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	

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
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DATA SHEET

/ 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%		

				VIN	
	UVLO			UVLO	VIN
	UVLO				
110mV					

BRCL4058HME-XX

	BAT	GND	300mV	BAT	GND
80mV					

CHRG FULL

9I : C+' , 8? D <\$XX

: ? I >

: ? I >

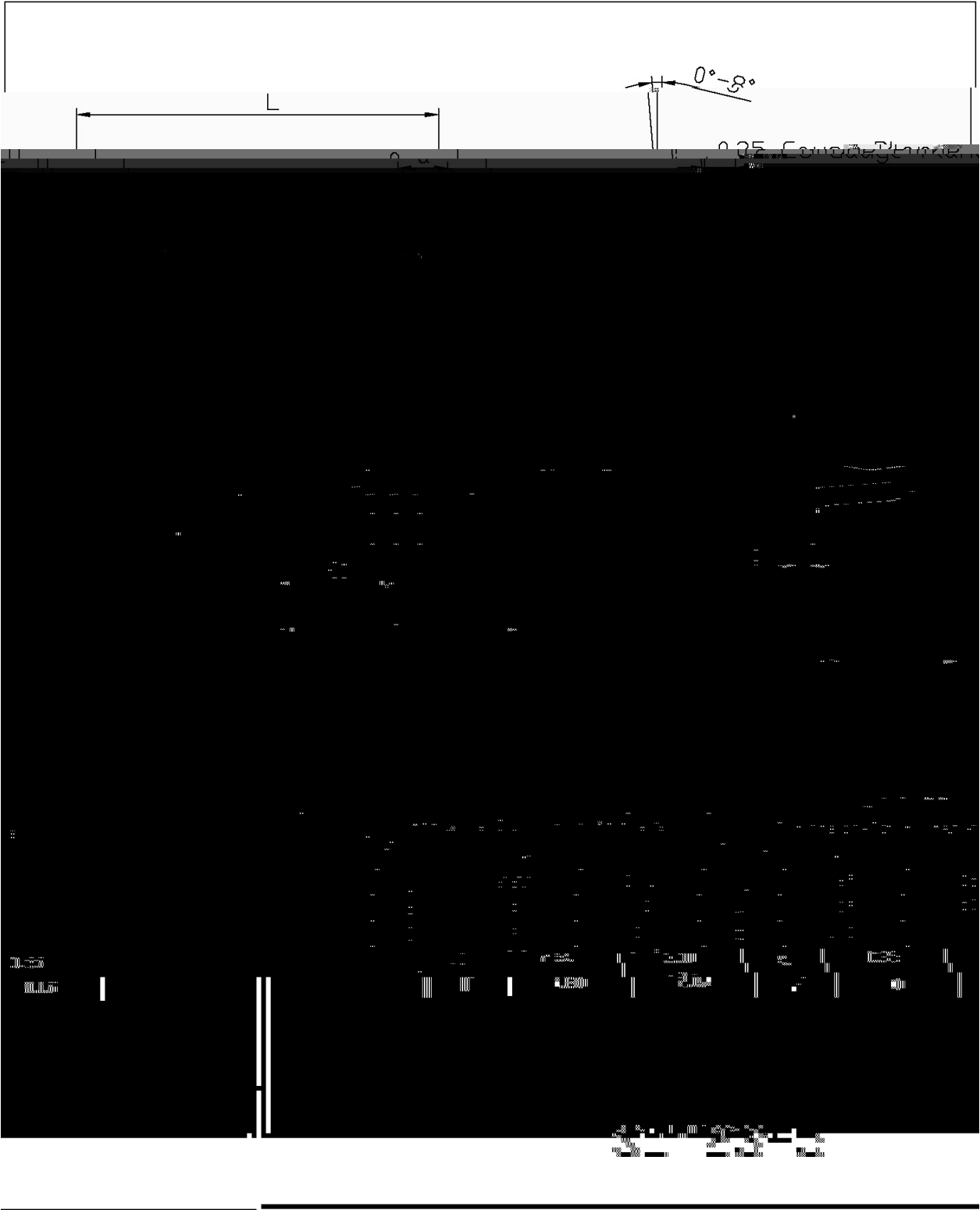
: ? I >

	CHRG
V; ;	

125

BRCL4058HME-XX
BRCL4058HME-XX

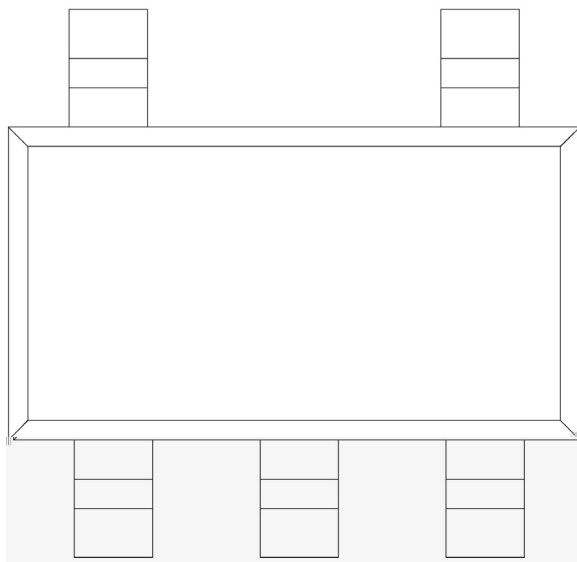
/ Package Dimensions



BRCL4058HME-XX

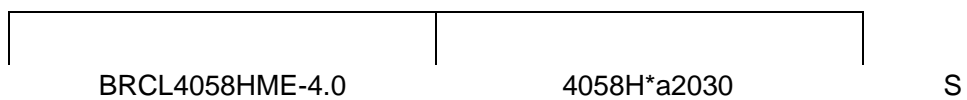
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/ Marking Instructions



+', 8?

XX



() / 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
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/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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