

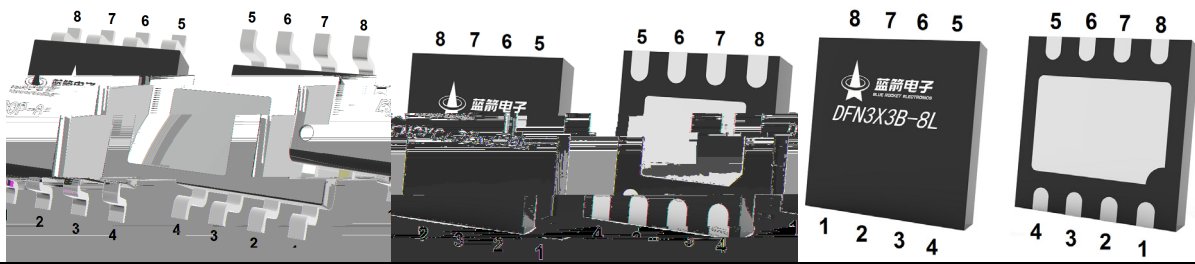
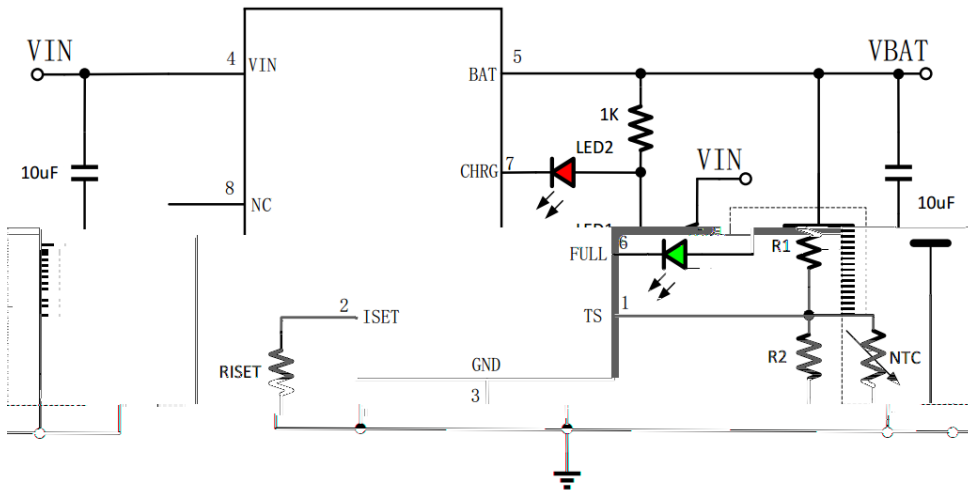
Rev.C Nov.-2024

BRCL4058H SREIES

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BRCL4058H SREIES

MOSFET



1	TS	
2	ISET	(f) I @ <K
3	GND	@8K4 (. ' ' !M@ <K& @ <K
4	VIN	
5	BAT	
6	FULL	
7	CHRG	
8	NC	

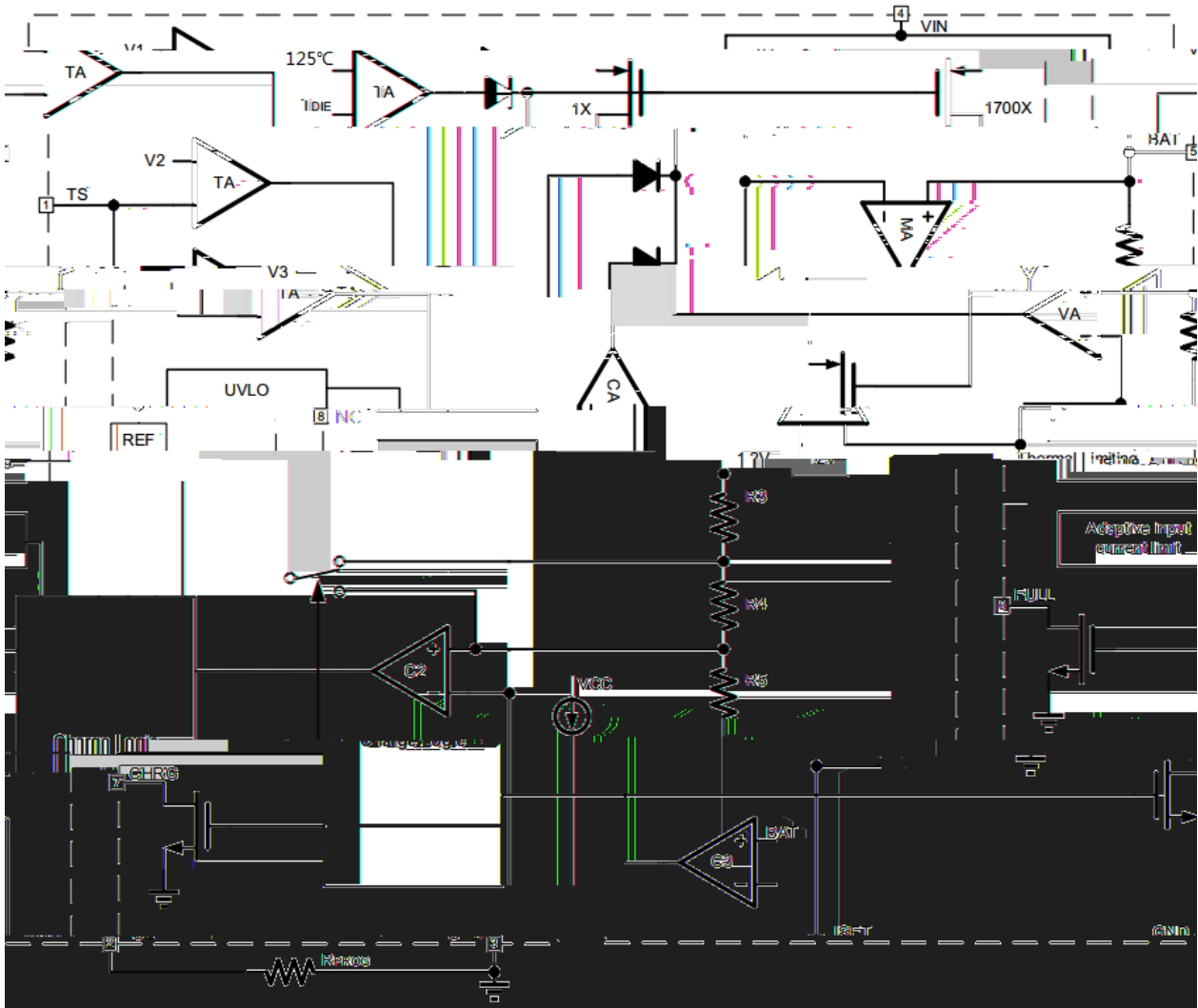
BRCL4058H

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SE:ESOP-8 ZZ:

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		°C	μ	μ	
BAT Pin Current	I _{BAT}	R _{ISET} =17k, Constant Current Mode		100	mA
		R _{ISET} =3.4k, Constant Current Mode		500	mA
		R _{ISET} =1.7k, Constant Current Mode (ESOP-8 & DFN3x3B-8L)		1000	mA
		R _{ISET} =2.1k, Constant Current Mode (DFN2x2-8L)		800	mA
		V _{BAT} =V _{FLOAT} , Standby Mode		2.5	μA
		Shutdown Mode (V _{BAT} = V _{FLOAT} , R _{PROG} not Connected / V _{IN} =0)		0.1	μA
		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	μA
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
TS Pin Voltage Threshold	V _{TS_L}			30	%V _{IN}
	V _{TS_H}			60	%V _{IN}
VIN-VBAT 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	°C



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3.3V 6.5V IC BAT 2.6V

BRCL4058H SREIES 1/10 ISET

ISET BAT 2.6V CC

CV BAT BRCL4058H SREIES

CV 1/10

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1ms ISET 1/10 ISET 100mV t_{TERM}

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(V_{ISET}=1V) ISET

$$I_{BAT} = \frac{1700 \times V_{ISET}}{R_{ISET}}$$

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4.05V BRCL4058H SREIES BAT

80% 90%

◆

UVLO VIN UVLO VIN

110mV

◆

BRCL4058H SREIES

BAT GND 300mV BAT GND

80mV



CHRG

FULL

	LED/CHRG	LED/FULL



BRCL4058H SREIES TS NTC

PTC BRCL4058H SREIES VTS-L VTS-H

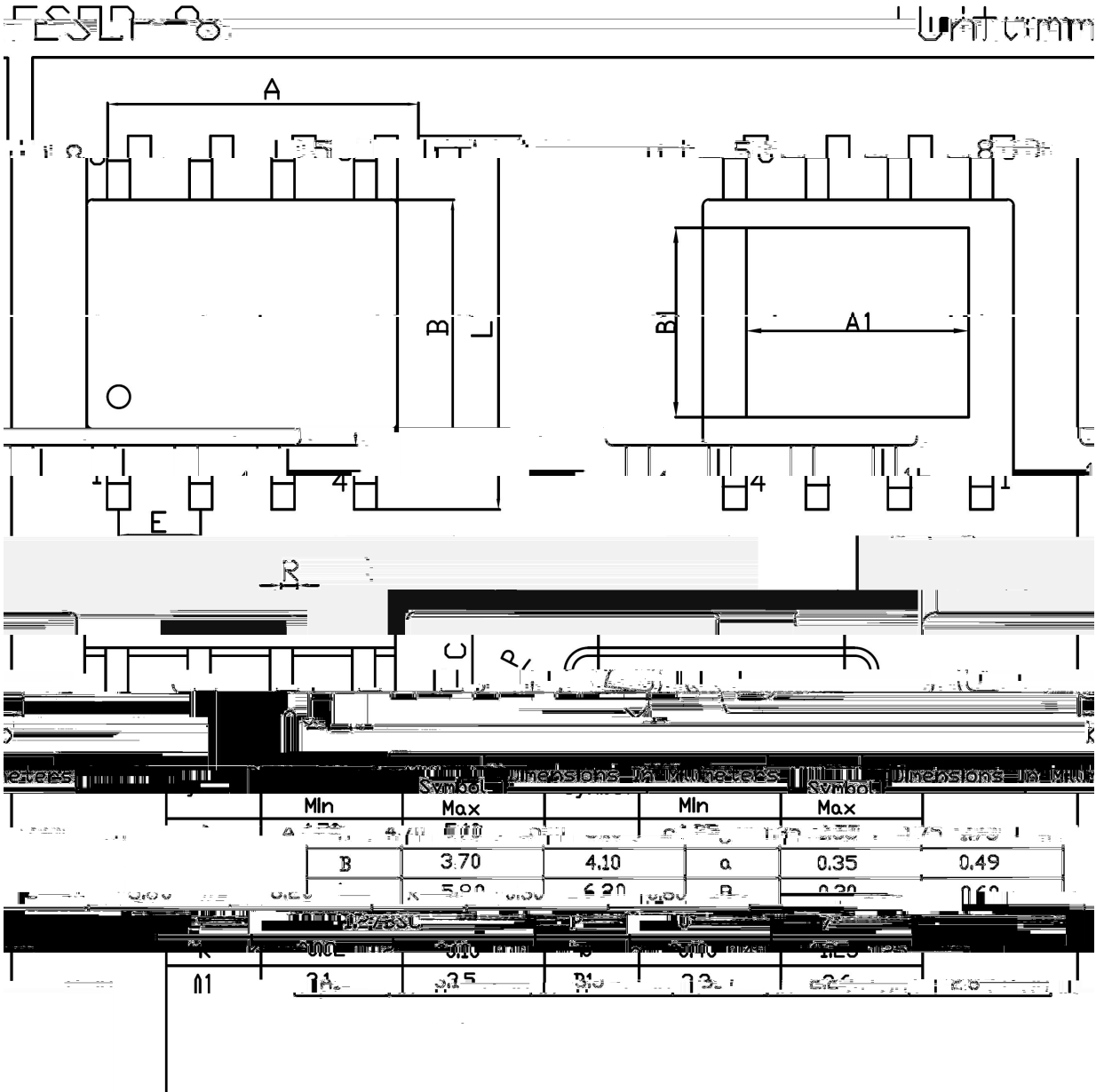
 VTS-L VTS-H VIN

 VIN TS



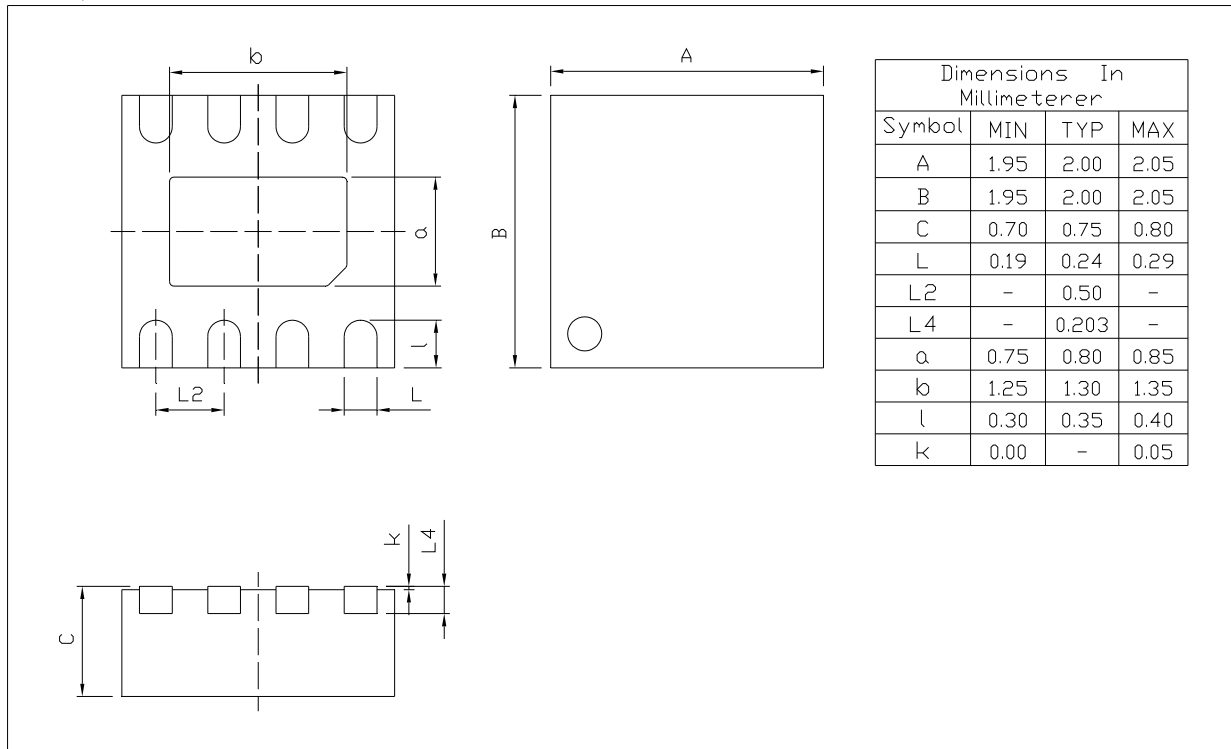
SREIES 125 BRCL4058H

 BRCL4058H SREIES



DFN2x2-8L-0.75

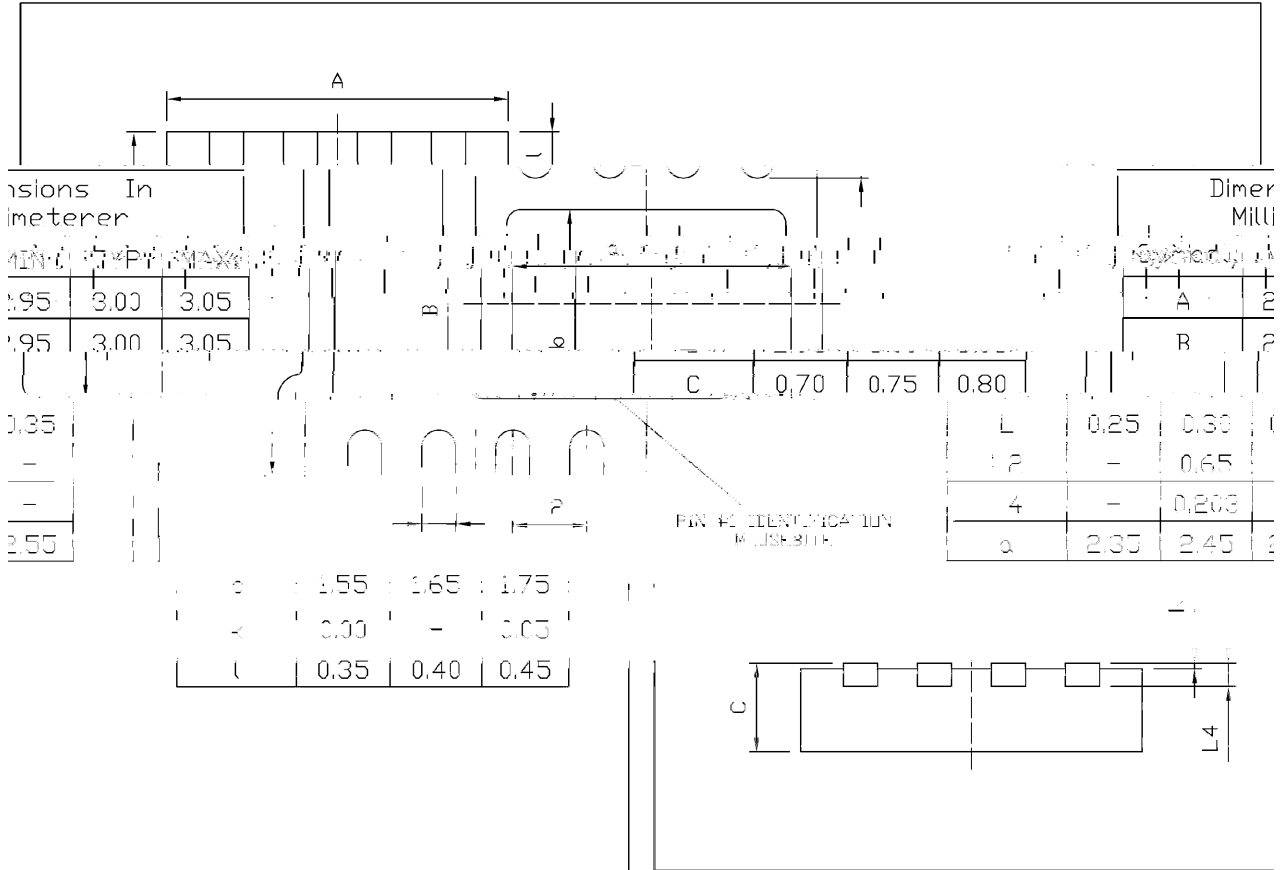
Unit:mm

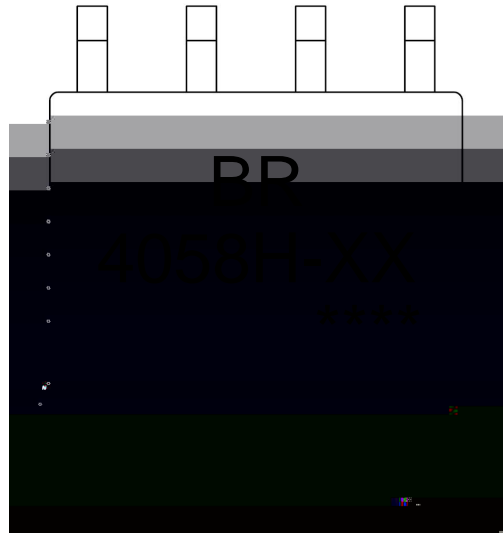


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DFN3X3B-8L

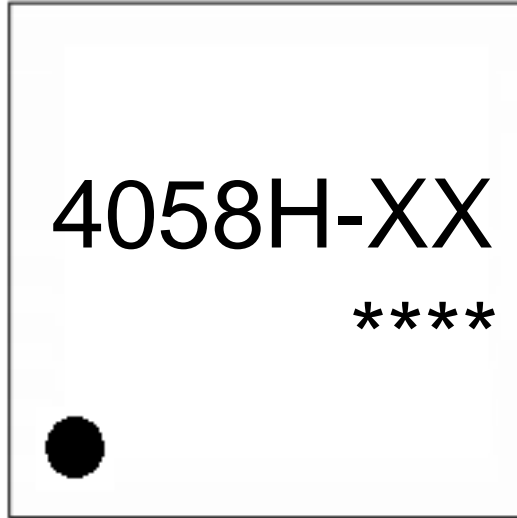
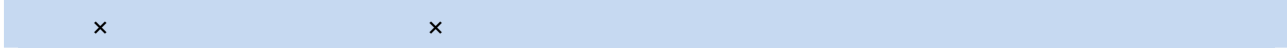
Unit:mm





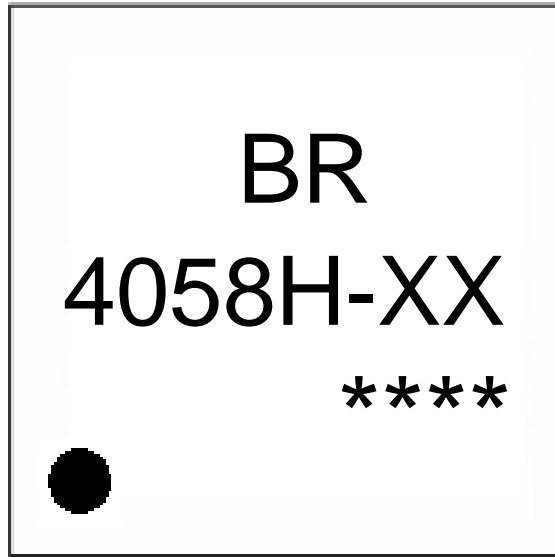
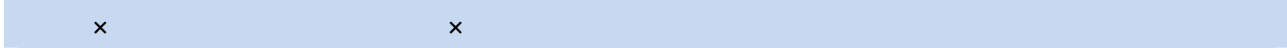
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BRCL4058HSE-4.0	BR/4058H-40/****
BRCL4058HSE-4.2	BR/4058H-42/****
BRCL4058HSE-4.35	BR/4058H-435/****



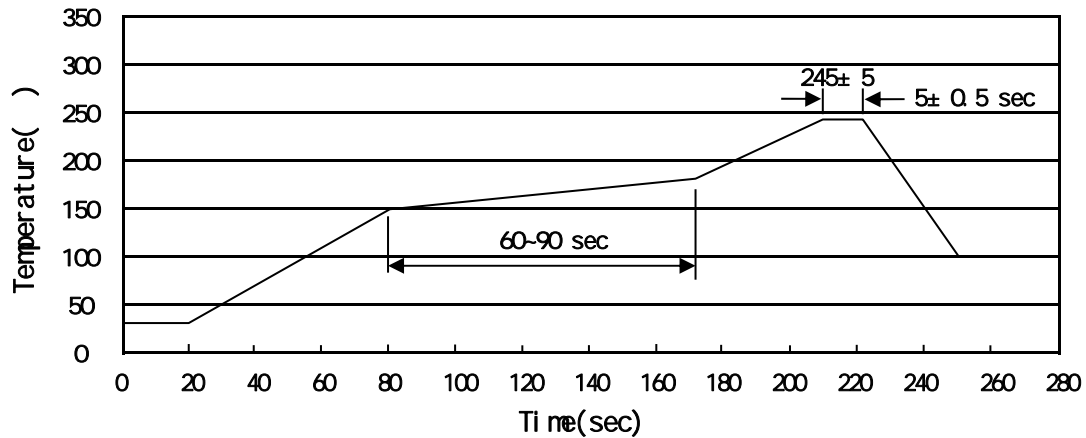
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BRCL4058HZZ-4.0	BR/4058H-40/****
BRCL4058HZZ-4.2	BR/4058H-42/****
BRCL4058HZZ-4.35	BR/4058H-435/****



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BRCL4058HZR-4.0	BR/4058H-40/****
BRCL4058HZR-4.2	BR/4058H-42/****
BRCL4058HZR-4.35	BR/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°C

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
SOP/ESOP-8	4,000	2	8,000	6	48,000	13" x12	360x360x50	380x335x366

Package Type	Units					Dimension (unit mm ³)		
DFN2x2-8L	4,000	10	40,000	4	160,000	7 x8	210x205x205	445x435x230

Package Type	Units					Dimension (unit mm ³)		
DFN3x3B-8L	5,000	2	10,000	6	60,000	13" x12	360x360x50	380x335x366