

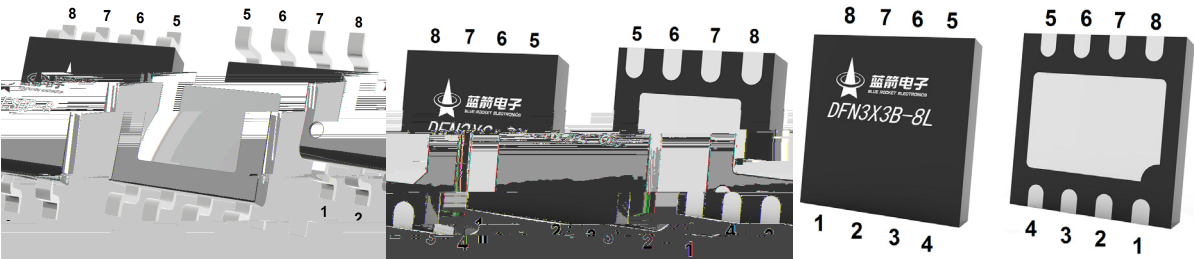
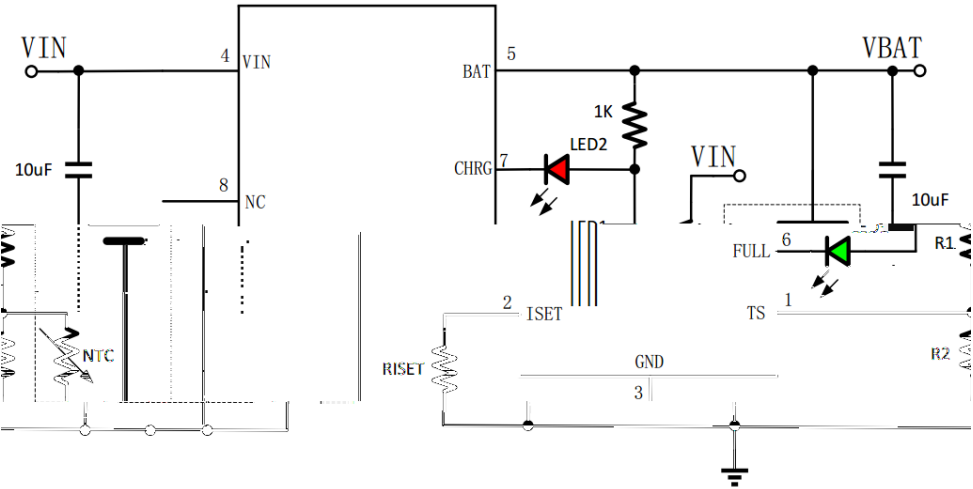
Rev.C Nov.-2024

BRCL4058H SREIES

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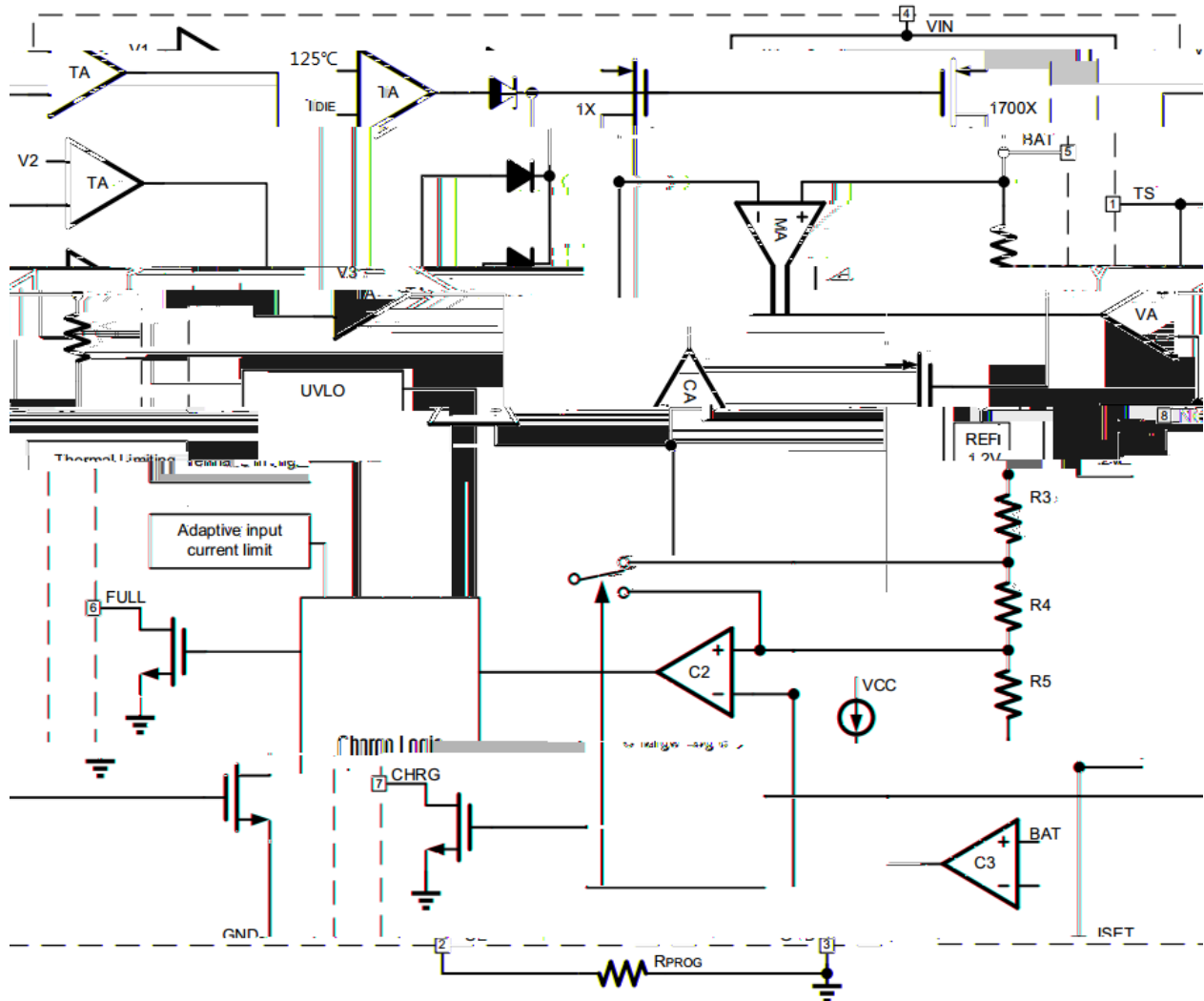
MOSFET

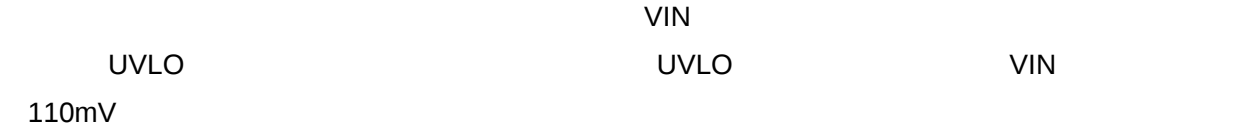
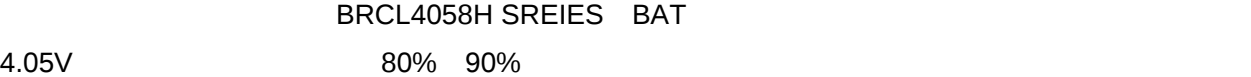
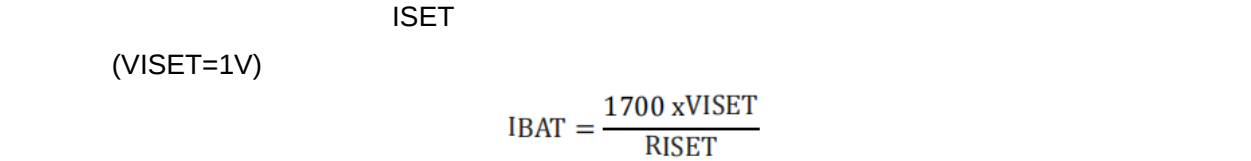
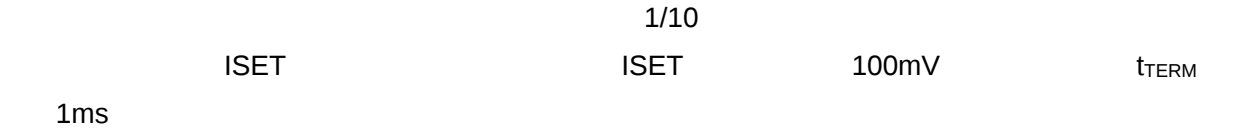
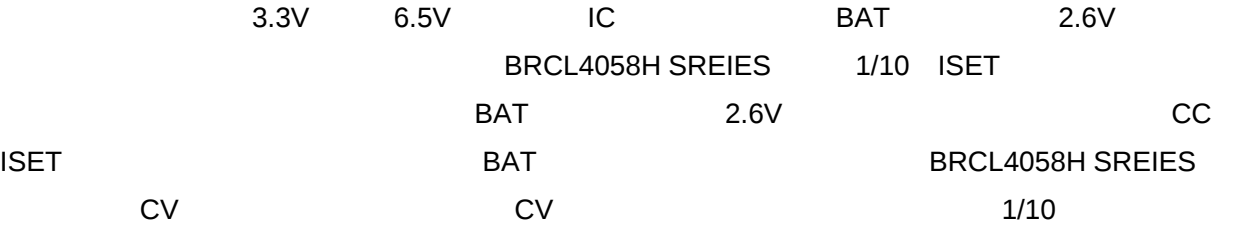


1	TS	
2	LVHW	4 (ULVHW LEDW@4 : 33-YLVHW2ULVHW
3	GND	
4	VIN	
5	BAT	
6	FULL	
7	CHRG	
8	NC	

BRCL4058H ♪ ♪	
①	SE:ESOP-8 ZZ:

		℃	μ	μ		
BAT Pin Current	I _{BAT}	R _{IS} ET=17k, Constant Current Mode		100		mA
		R _{IS} ET=3.4k, Constant Current Mode		500		mA
		R _{IS} ET=1.7k, Constant Current Mode (ESOP-8 & DFN3×3B-8L)		1000		mA
		R _{IS} ET=2.1k, Constant Current Mode (DFN2×2-8L)		800		mA
		V _{BAT} =V _{FLOAT} , Standby Mode		2.5		μA
		Shutdown Mode (V _{BAT} = V _{FLOAT} , R _P ROG 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	ΔV _{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
IS _{ET} Pin Voltage	V _{IS_{ET}}	R _{IS} ET=10k, Constant Current Mode		1		V
TS Pin Voltage Threshold	V _{TS_L}			30		%V _{IN}
	V _{TS_H}			60		%V _{IN}
VIN-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		℃







CHRG

FULL

	LED/CHRG	LED/FULL



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PTC

VIN

TS

BRCL4058H SREIES

VTS-L

VTS-H

VIN

NTC

VTS-L

VTS-H

VIN

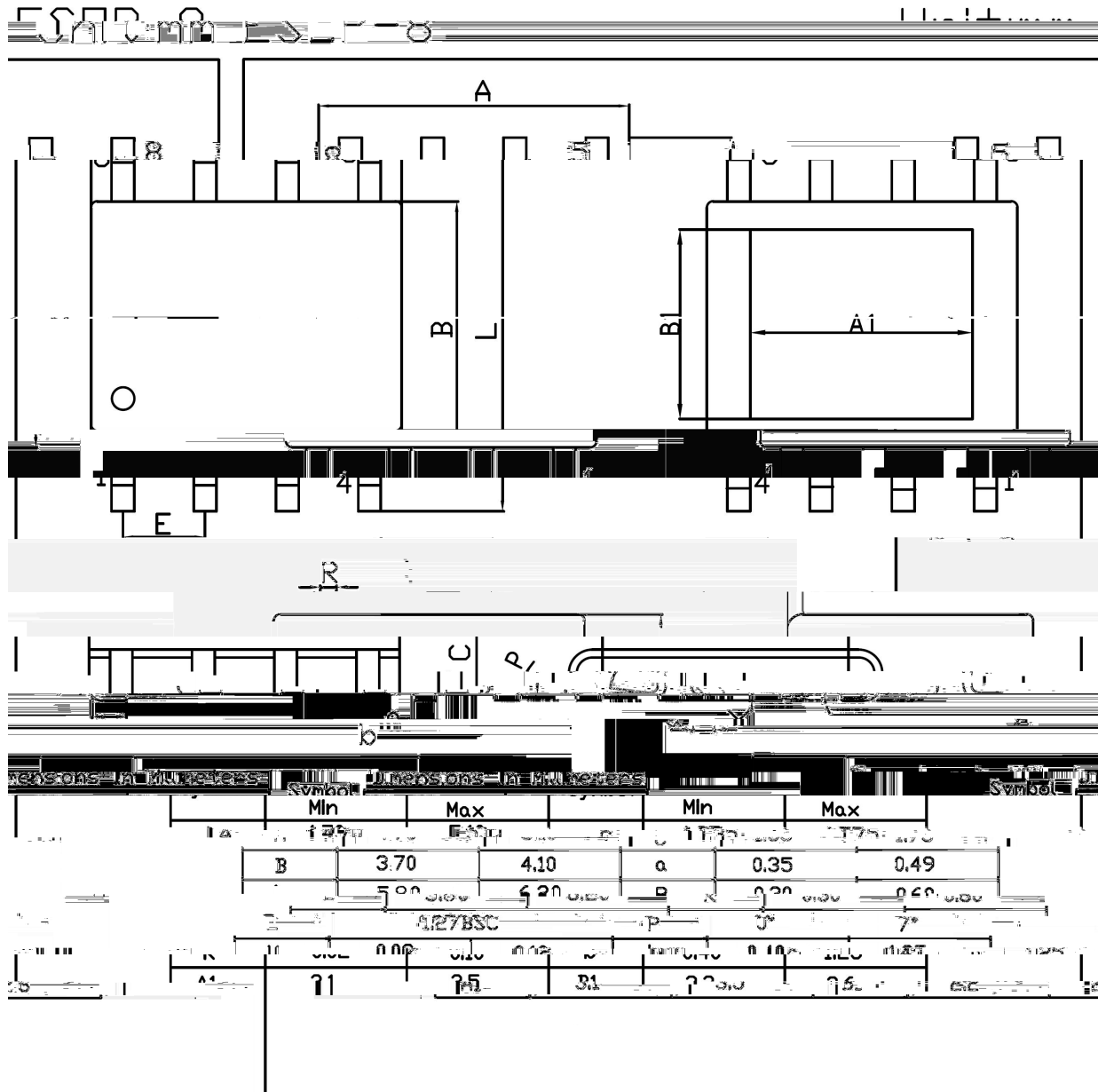


SREIES

125%

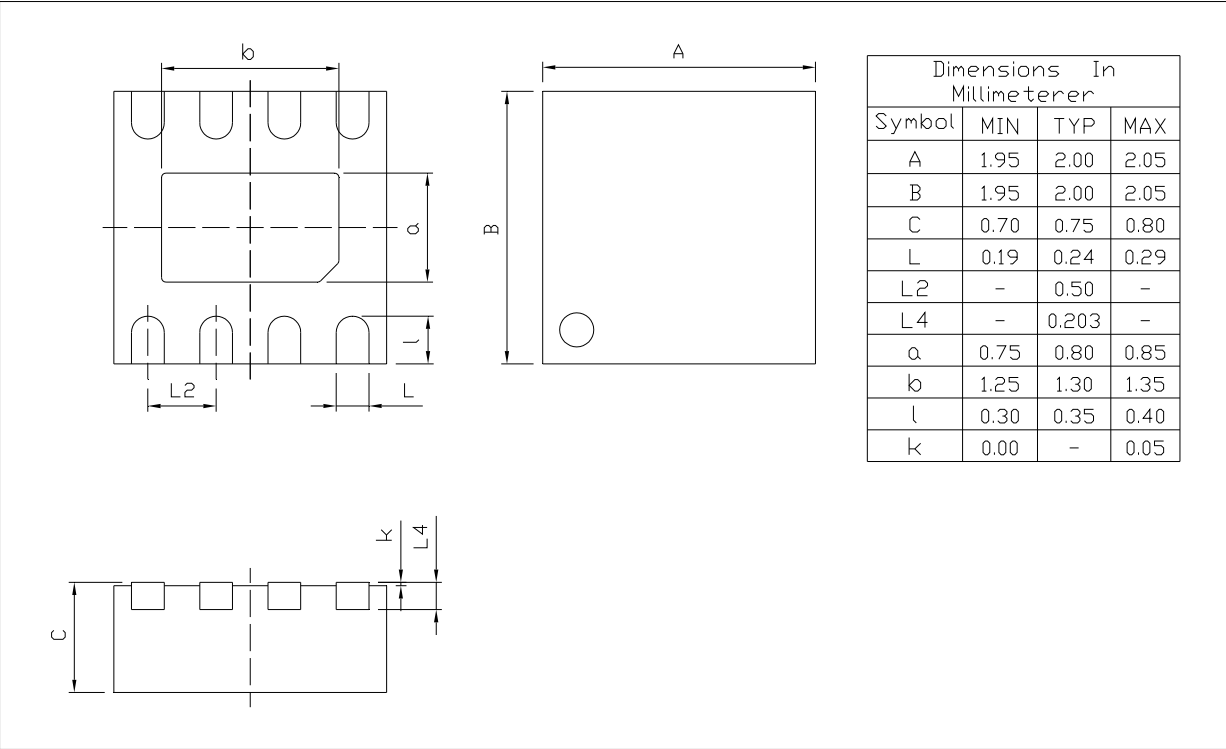
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DFN2×2-8L-0.75

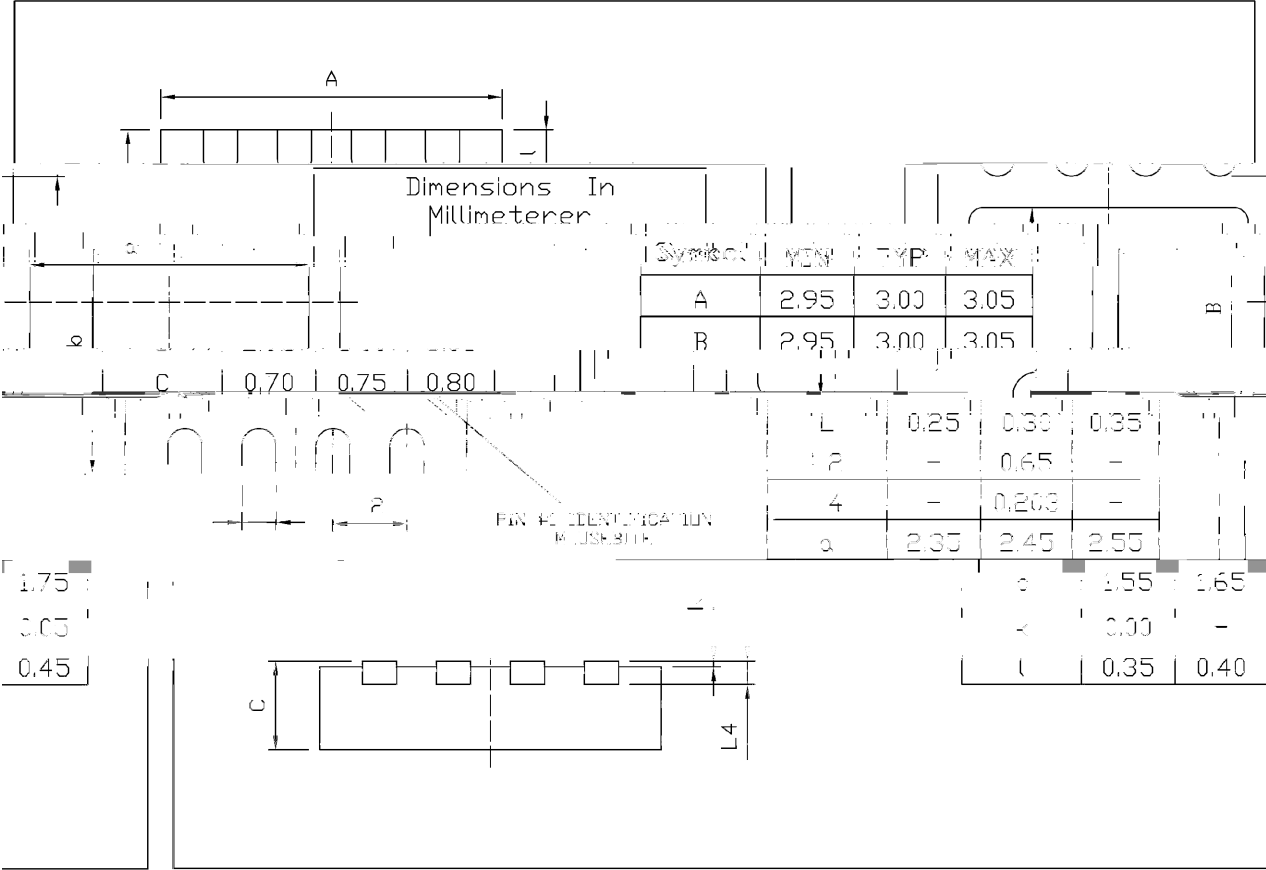
Unit:mm



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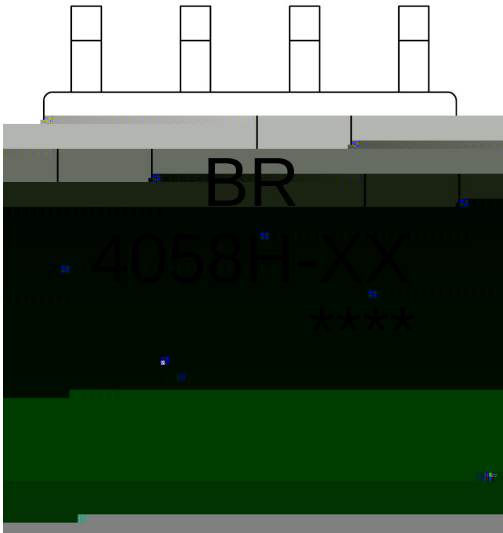
DFN3X3B-8L

Unit:mm



1.00 202006

Rev



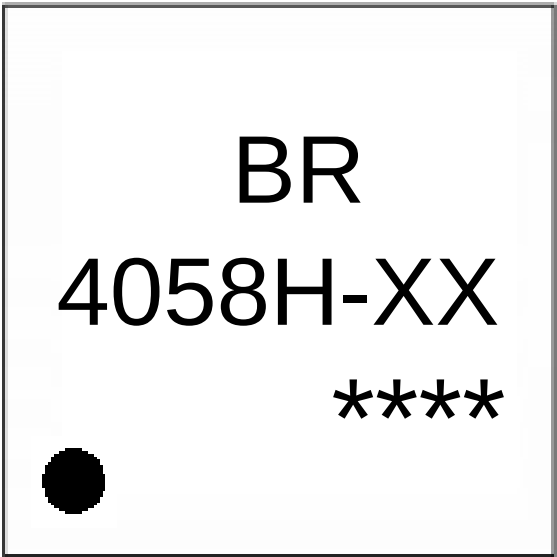
EU
738; K
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BRCL4058HSE-4.0	BR/4058H-40/****
BRCL4058HSE-4.2	BR/4058H-42/****
BRCL4058HSE-4.35	BR/4058H-435/****



738; K
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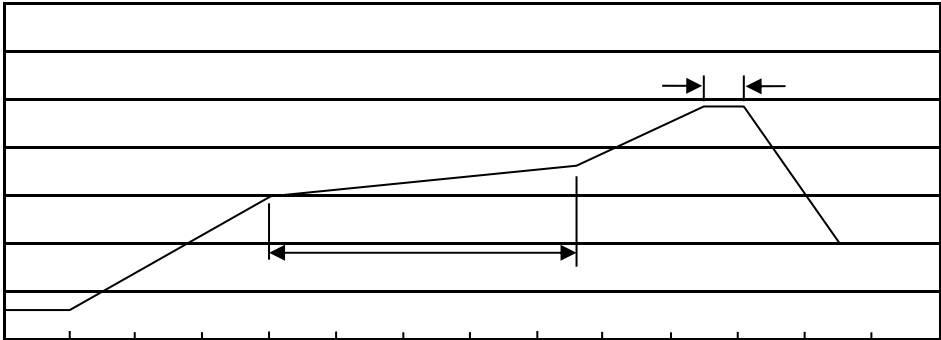
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BRCL4058HZZ-4.2	BR/4058H-42/****
BRCL4058HZZ-4.35	BR/4058H-435/****



EU
738; K
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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;

2

245 ± 5℃

5 ± 0.5sec;

3

2 10℃/sec.
- 1.Preheating:150~180℃, Time:60~90sec.

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

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)		
SOP/ESOP-8	4,000	2	8,000	6	48,000	13" ×12	360×360×50	380×335×366

Package Type	Units					Dimension (unit mm ³)		
DFN2×2-8L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

Package Type	Units					Dimension (unit mm ³)		
DFN3×3B-8L	5,000	2	10,000	6	60,000	13" ×12	360×360×50	380×335×366