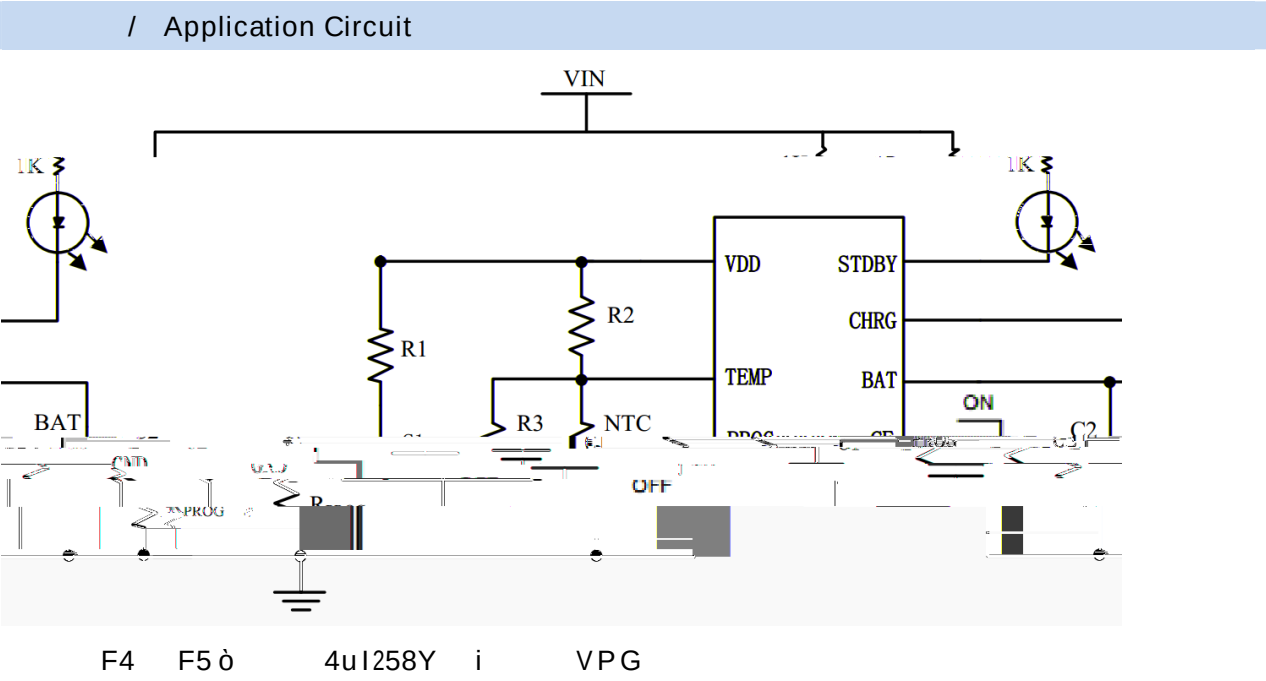
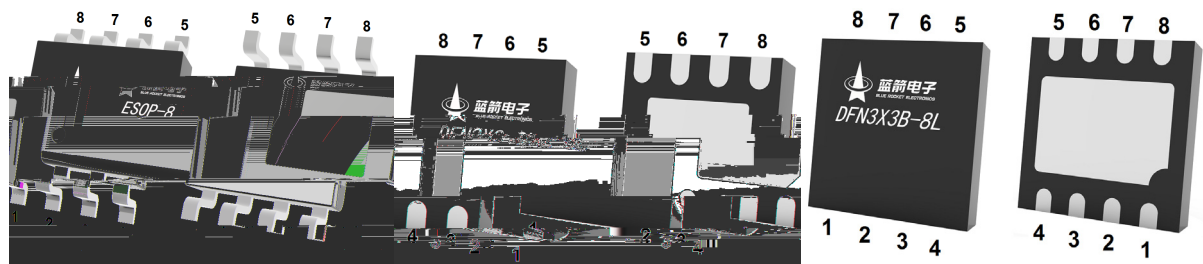


/ Descriptions			
BRCL4058M SERIES	1A		BRCL4058M SERIES
P-MOSFET			
4.2V		4.2V	
1/10		BRCL4058M SERIES	

/ Features			
6.8V OVP			
VDD	30V		
0V			
1A			
5			
2.8V			
8	ESOP	DFN	
RoHS			

/ Applications			
XVE			





PIN Num.	Symbol	Function
1	TEMP	温度检测
2	SUR J	浪涌保护
3	GND	接地
4	VDD	8Y
5	BAT	
6	STDBY	6
7	CHRG	
8	CE	充电控制 温度检测 浪涌保护 接地 8Y 6 充电控制

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BRCL4058M Series

Rev.B Feb.-2025



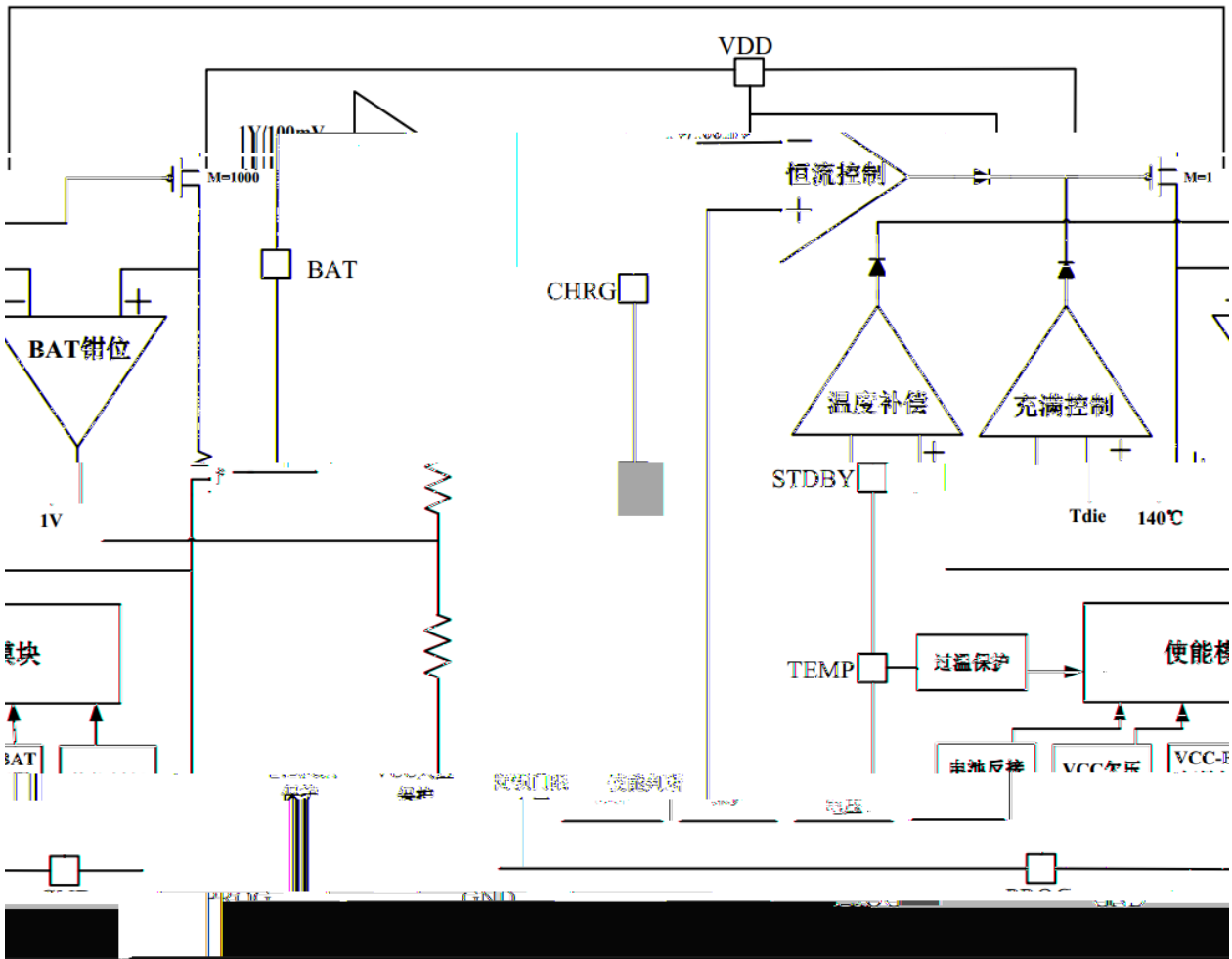
DATA SHEET

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Power Supply						
Input Supply Voltage	V_{DD}		4.5	5.0	6.0	V
V_{DD} Under Voltage Lockout Threshold V_{DD}	V_{DD_UV}	V_{DD} from Low to High		3.8		V

/ Electrical Characteristics(Ta=25)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Indicator Pin Status CHRG/STDBY						
CHRG Pin Output Current	I _{CHRG}	V _{DD} =5V;V _{CHRG} =1V	1	2.5	5	mA
STDBY Pin Output Current	I _{STDBY}	V _{DD} =5V;V _{STDBY} =1V	1	2.5	5	mA
Internal Temperature Compensation						
Internal Temperature Compensation	T _{OTC}			140		
Overtemperature Detection Threshold	T _{OTPH}	WH P S QWF	43%* VDD	45%* VDD		V
Low Temperature Detection Threshold	T _{OTPL}	WH P S QWF		80%* VDD	82%* VDD	V

/ Principle block diagram



/ Function description

BRCL4058M SERIES / BRCL4058M
SERIES USB AC 1A , 30V
6.8V I

VDD UVLO i PROG 1%
BAT 2.8V,
1/10
BAT 2.8V i %
BAT BRCL4058M SERIES
1/10

$I_{CH}=1000/R_{PROG}$ I_{CH} R_{PROG}
 R_{PROG} 200mA
 $R_{PROG}=1000/0.2=5K\Omega$
 R_{PROG} 1%
 R_{PROG}

$R_{PROG}(K\Omega)$	$I_{CH}(mA)$
1	1000
1.2	830
1.5	666
5	200

BRCL4058M SERIES o 2ms $\epsilon T_{RECHARGE}$
BAT 4.05V 80
90 70
y

/ Function description

BRCL4058M SERIES

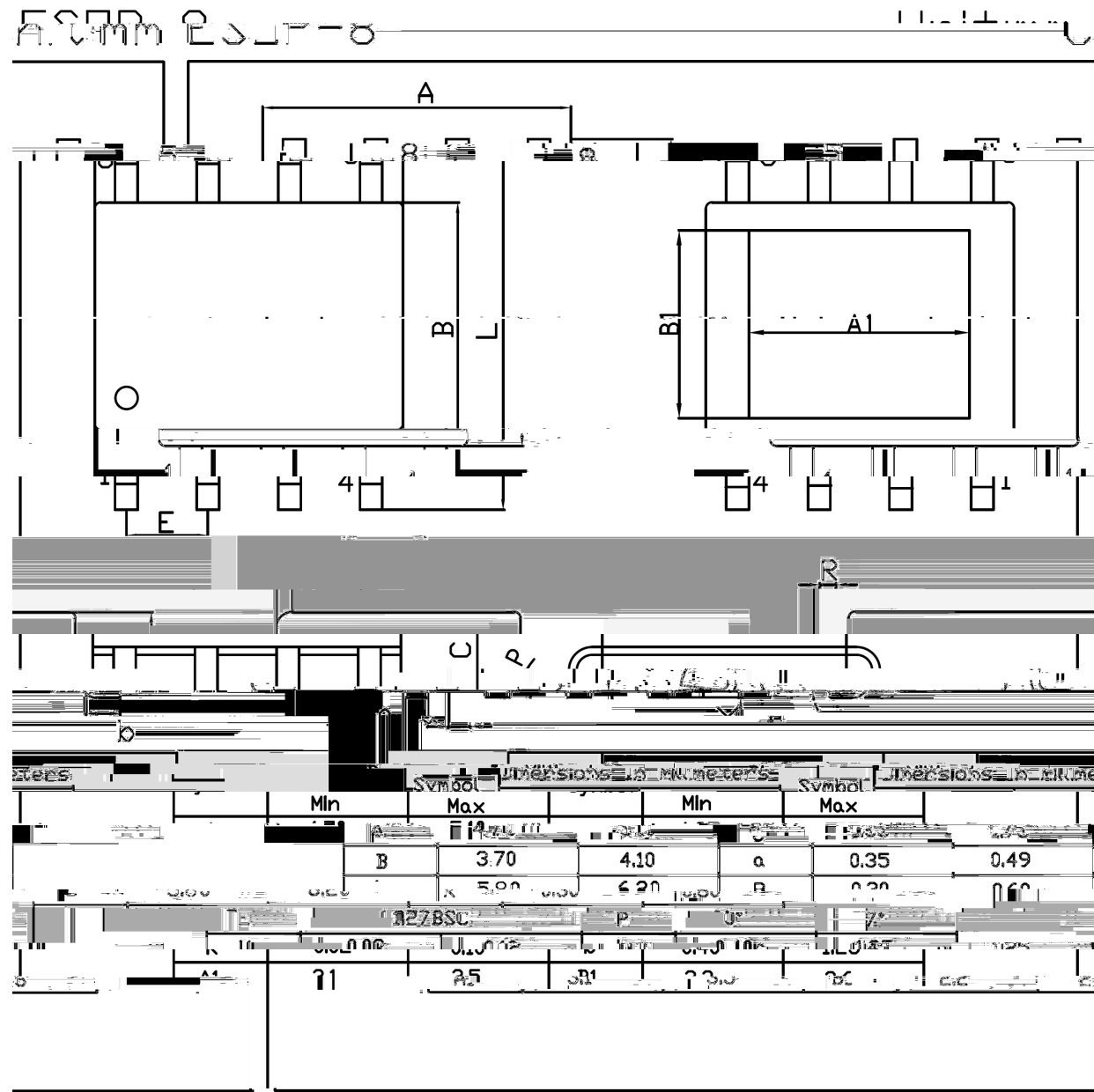
UVLO

BRCL4058M SERIES

BRCL4058M SERIES

	CHRG/	STDBY/
*		
+WHPS		
YGG		

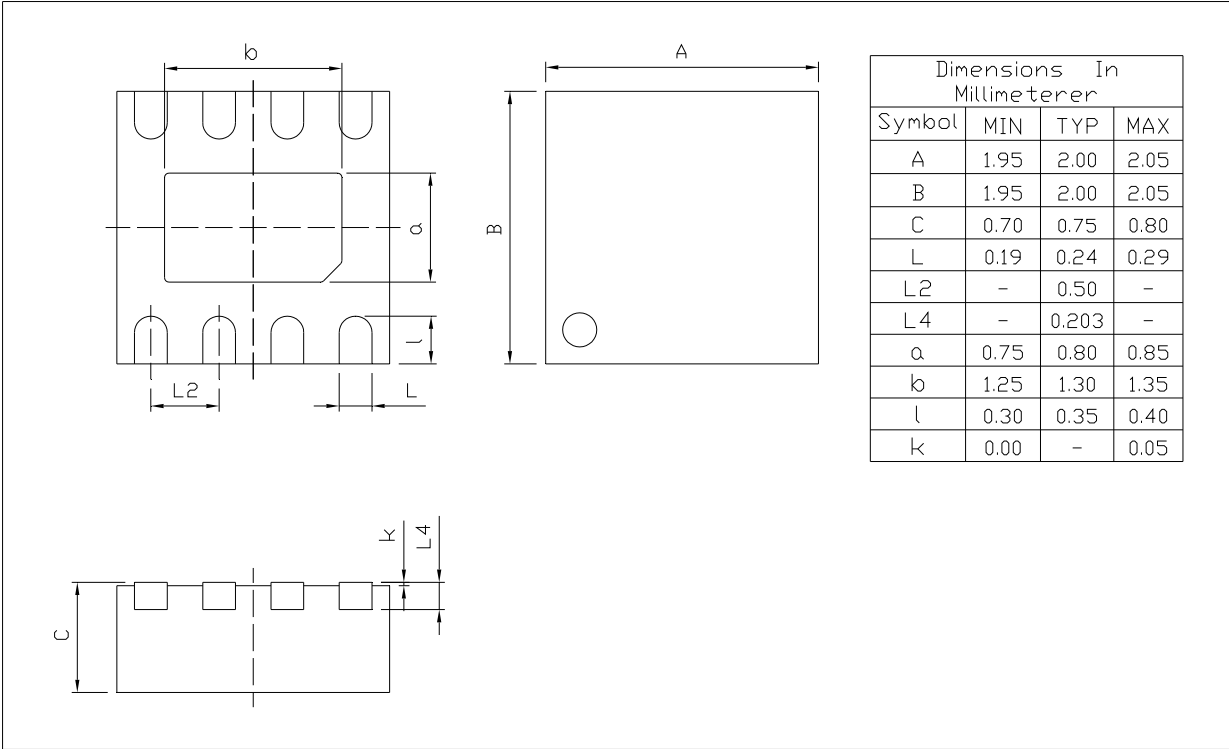
/ Package Dimensions



/ Package Dimensions

DFN2×2-8L-0.75

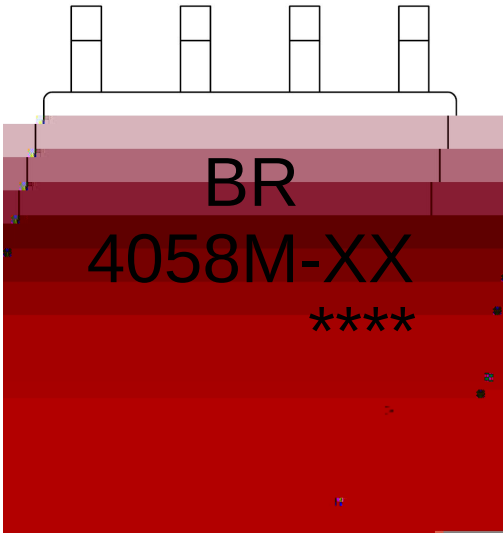
Unit:mm



Rev.00 202012

ESOP-8

/ ESOP-8 Marking Instructions



EU

7388 P

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BRCL4058MSE-4.2	BR/4058M-42/****

DFN2 2-8L / DFN2 2-8L Marking Instructions



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BRCL4058MZZ-4.2	4058M-42/*****

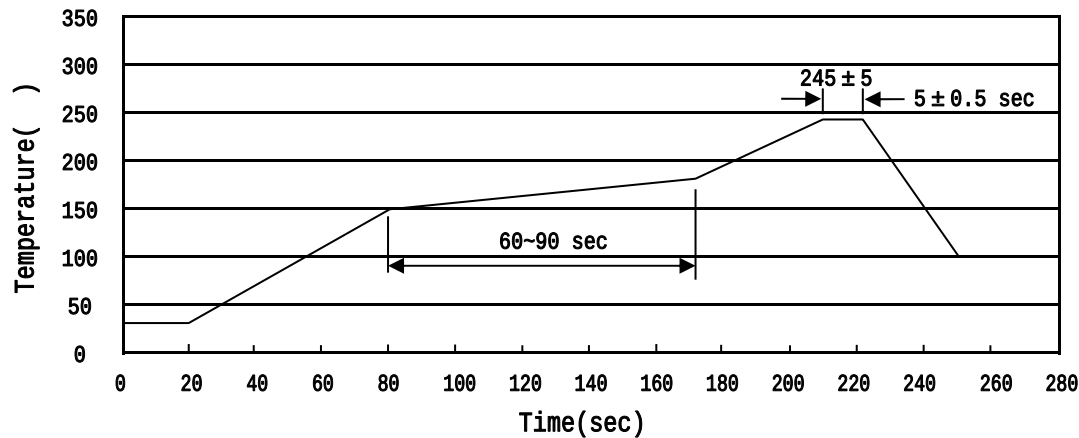
DFN3 3B-8L / DFN3 3B-8L Marking Instructions



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BRCL4058MZR-4.2	BR/4058M-42/****

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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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
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)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
DFN3×3B-8L	5,000	2	10,000	6	60,000	13 ×12	360×360×50	380×335×366

/ Notices