

/ Descriptions

BRCL4058NZZ	1A	/	BRCL4058NZZ
P-MOSFET			4.2V
	4.2V	1/10	
BRCL4058NZZ			

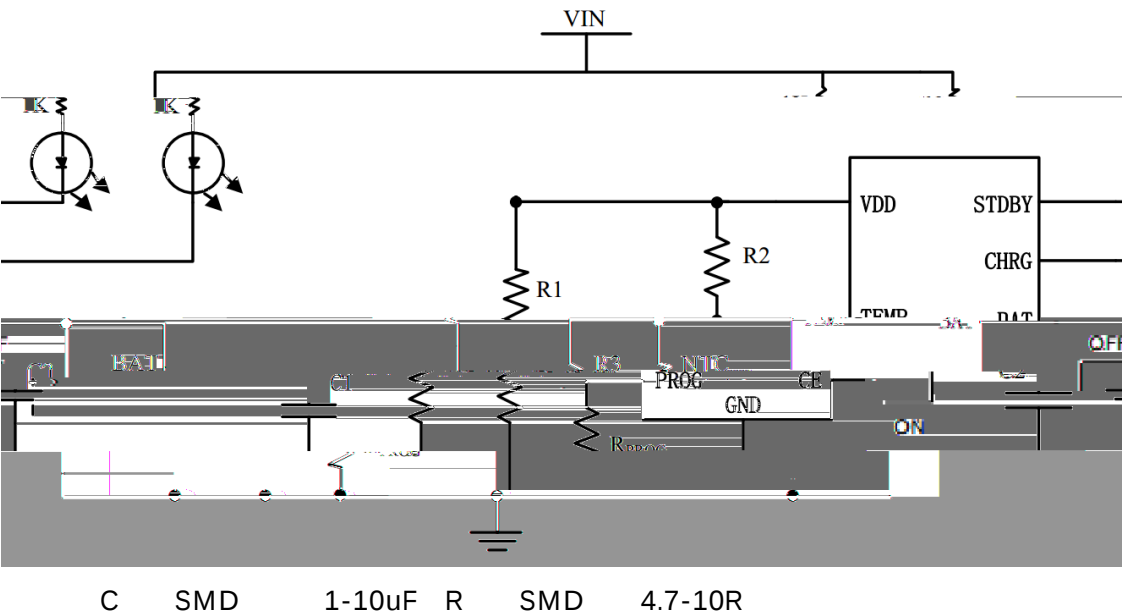
/ Features

	6.8V OVP
VDD	36V
0V	
	1A
/	/
2.8V	
DFN2×2-8L	
RoHS	

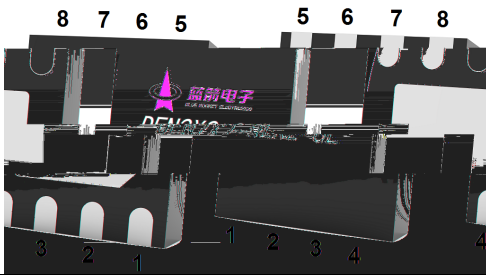
/ Applications

USB

/ Application Circuit



/ Pinning



PIN Num.	Symbol	Function
1	TEMP	
2	PROG	
3	GND	
4	VDD	5V
5	BAT	
6	STDBY	
7	CHRG	
8	CE	

/ Absolute Maximum Ratings(Ta=25)

PARAMETER	SYMBOL	RATINGS	UNITS
VDD/CHRG/STDBY Pin Voltage	$V_{VDD/CHRG/STDBY}$	-0.3~36	V
VCE Pin Voltage	V_{CE}	-0.3~32	
BAT Pin Voltage	V_{BAT}	-5~15	
PROG Pin Voltage	V_{PROG}	-0.3~6	
TEMP Pin Voltage	V_{TEMP}	-0.3~15	
Operating Ambient Temperature Range	T_{OP}	-40~+85	°C
Storage Temperature	T_{stg}	-55~+150	°C
Lead Temperature (Soldering, 10s)	T_{solder}	260	°C
ESD	HBM	2000	V
	MM	200	V

BRCL4058NZZ-4.2

Rev.B Aug.-2025



DATA SHEET

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

/ Function description

BRCL4058NZZ / BRCL4058NZZ
USB AC 1A , 36V 6.8V

VDD UVLO PROG 1%
BAT 2.8V,
1/10
BAT 2.8V
BAT
BRCL4058NZZ
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

BAT BRCL4058NZZ 2ms $T_{RECHARGE}$
4.05V 80 90

/ Function description

140BRCL4058NZZ

UVLOVDDVDD
VDD200mV

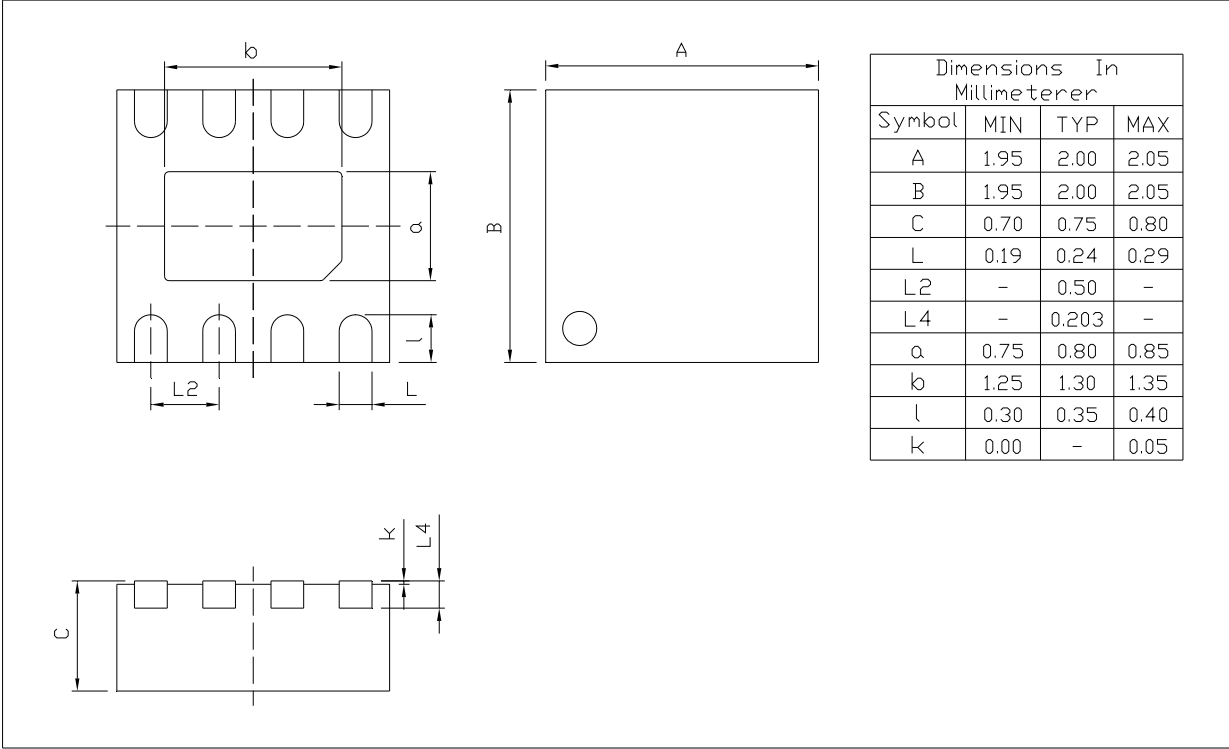
BRCL4058NZZVDD
VDD

BRCL4058NZZCHRG STDBY
CHRGSTDBYCHRG STDBY

	CHRG/	STDBY/
(TEMP)		
VDD		

I Package Dimensions

DFN2 x2-8L-0.75Unit:mm



Rev.00 202012

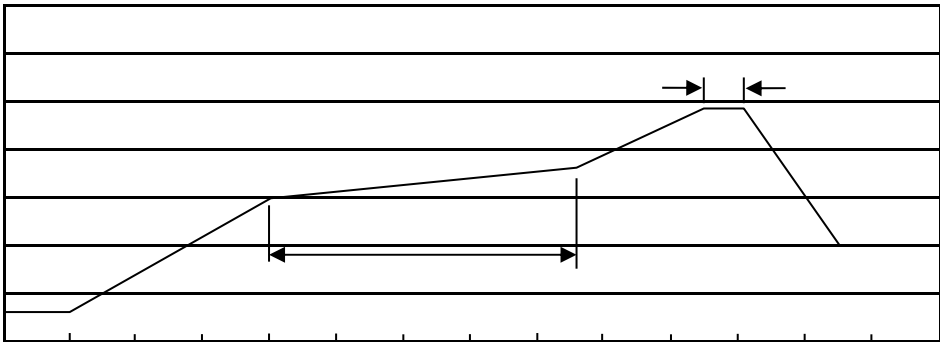
/ DFN2 2-8L Marking Instructions



4058N
XX

BRCL4058NZZ-4.2	4058N-42/****

() /



- 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

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
DFN2×2-8L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

/ Notices

All information provided in this document is subject to legal disclaimers.