

BRCL4056BZZ is a complete CC/CV linear charger for single cell lithium-ion batteries, It has the function of positive and negative electrode protection for battery. Its DFN2 2-8L package and low external component count make the BRCL4056BZZ ideally suited for portable applications. Furthermore, the BRCL4056BZZ is specifically designed to work within USB power specifications.

No external sense resistor is needed and no blocking diode is required due to the internal P-MOSFET architecture. Thermal feedback regulates the charge current to limit the die temperature during high power operation or high ambient temperature. The charge voltage is fixed at 4.2V, and the charge current can be programmed externally with a single resistor. The BRCL4056BZZ automatically terminates the charge cycle when the charge current drops to 1/10th the programmed value after the final float voltage is reached.

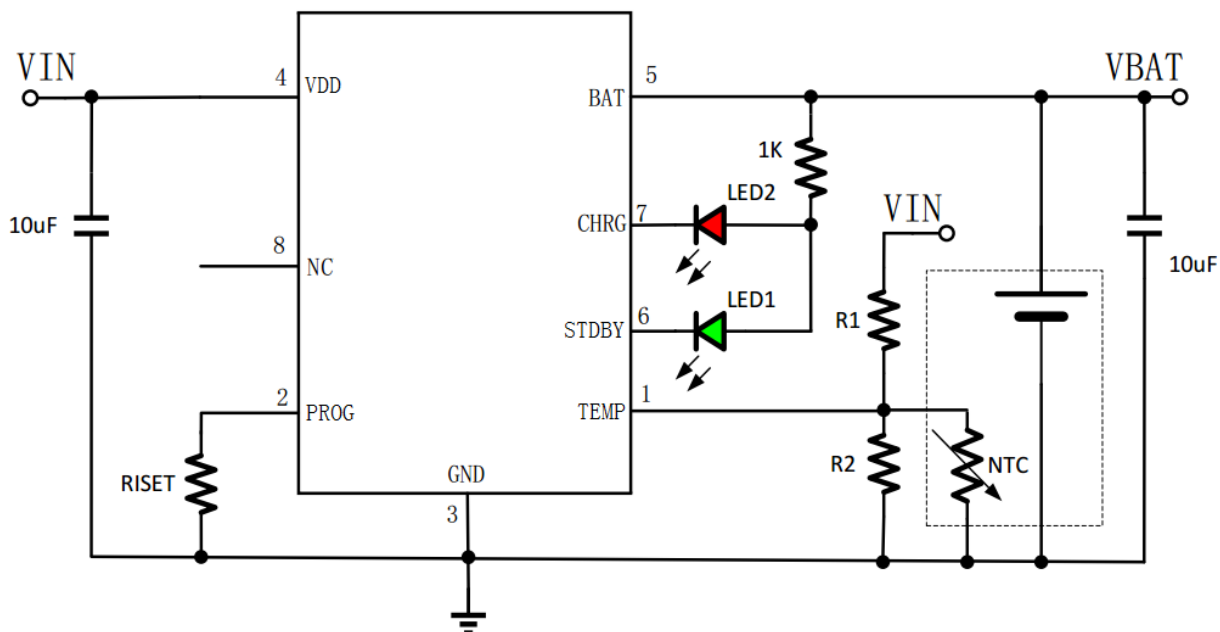
When the input supply (wall adapter or USB supply) is removed the BRCL4056BZZ automatically enters a low current state dropping the battery drain current to less than 3 μ

/ Features

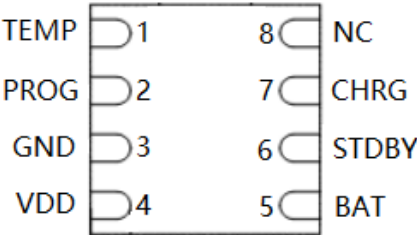
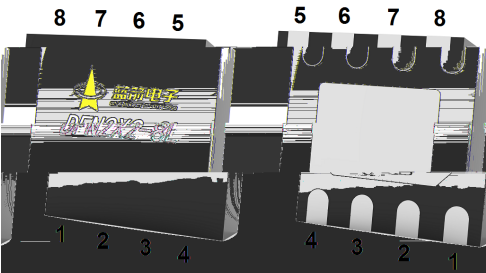
HF Product.

/ Applications

/ Typical Application



/ Indicator light working state



	TEMP	
	PROG	
	GND	
	VDD	
	BAT	
	STDBY	
	CHRG	
	NC	

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
				±	±	

/ Description of the Principle

BRCL4056BZZ

BRCL4056BZZ

BRCL4056BZZ

BRCL4056BZZ

BRCL4056BZZ

BRCL4056BZZ

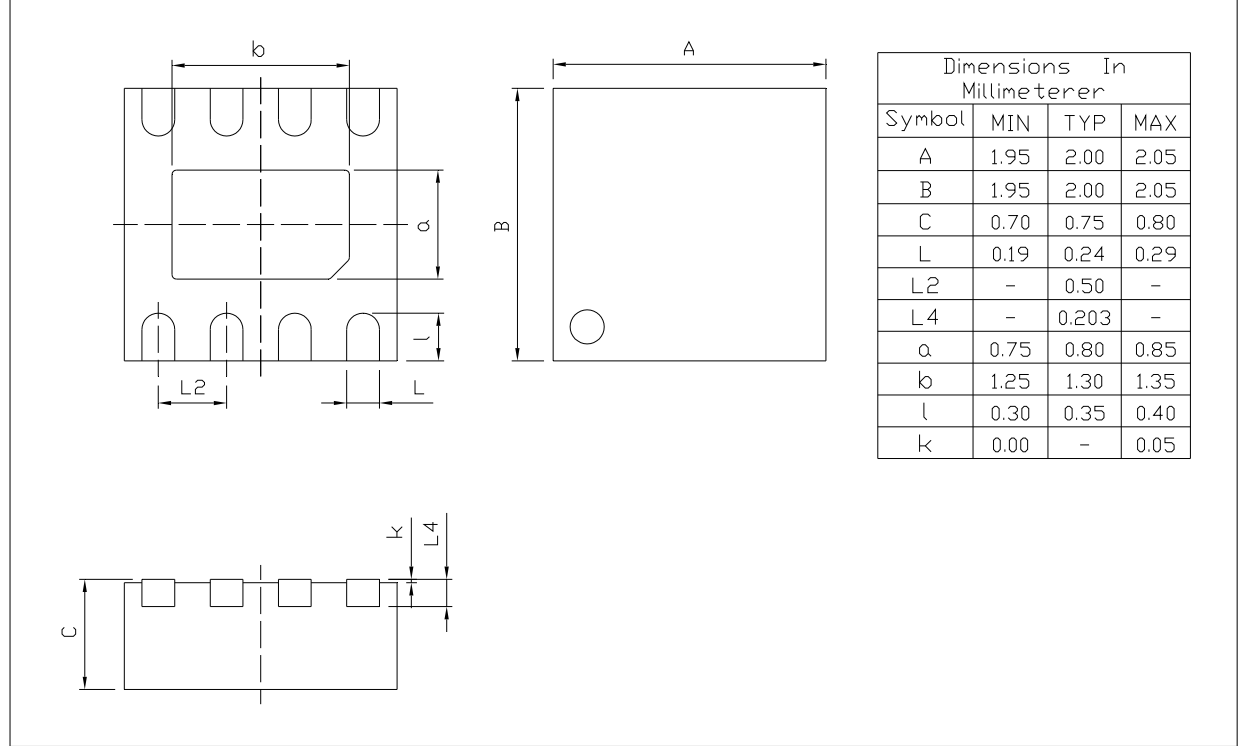
Rev.C Dec.-2024



DATA SHEET

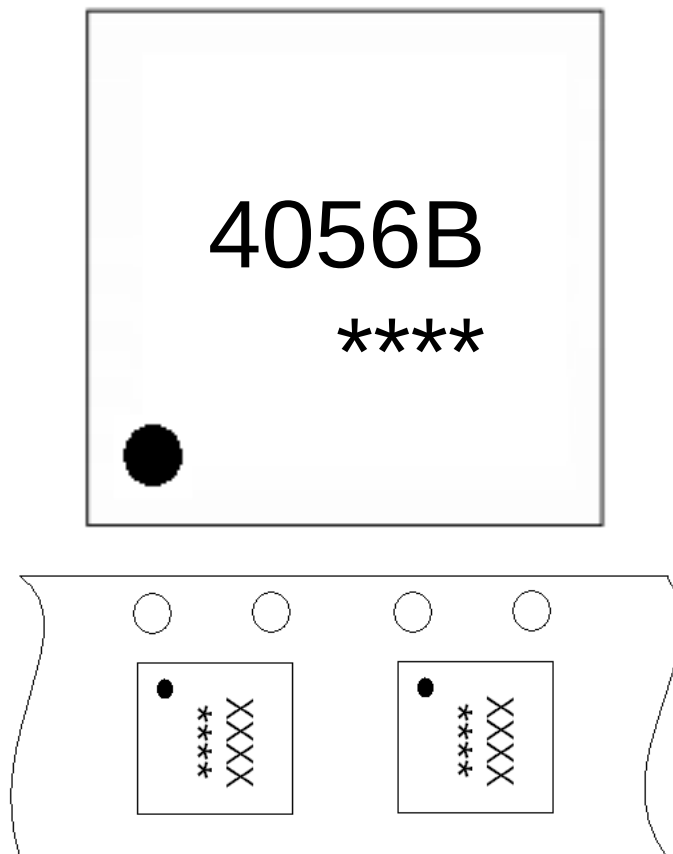
/ Package Dimensions

DFN2×2-8L-0.75Unit:mm



Rev.00 202012

/ Marking Instructions

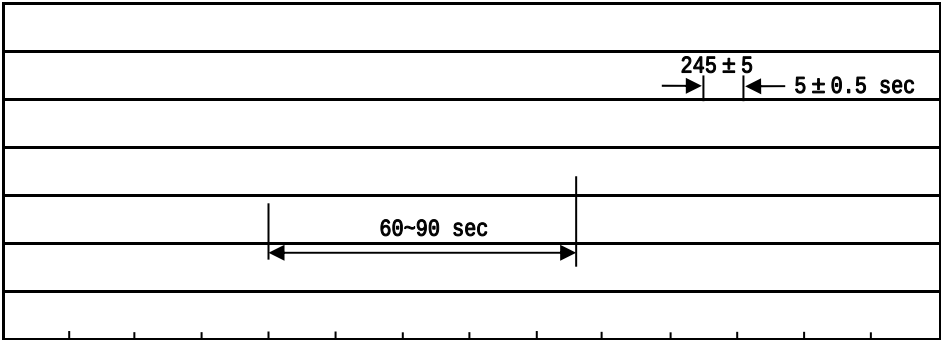


Note:

4056B: Product Type Code

****: Lot No. Code, code change with Lot No

() / 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

/ 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
DFN2×2-8L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

/ Notices