

/ Descriptions

BRCL4055ZF 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 package and low external component count make the BRCL4055ZF ideally suited for portable applications. Furthermore, the BRCL4055ZF 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 BRCL4055ZF 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 BRCL4055ZF automatically enters a low current state dropping the battery drain current to less than 3 A. Other features include charge current monitor, under-voltage lockout, automatic recharge and two status pins to indicate charge and charge termination.

/ Features

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Preset 4.20V charge voltage with $\pm 1\%$ accuracy

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Maximum input voltage is 8V

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/ Features

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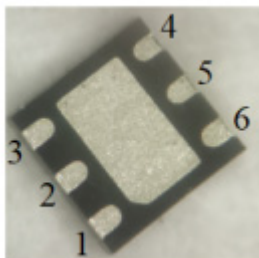
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Halogen-free Product.

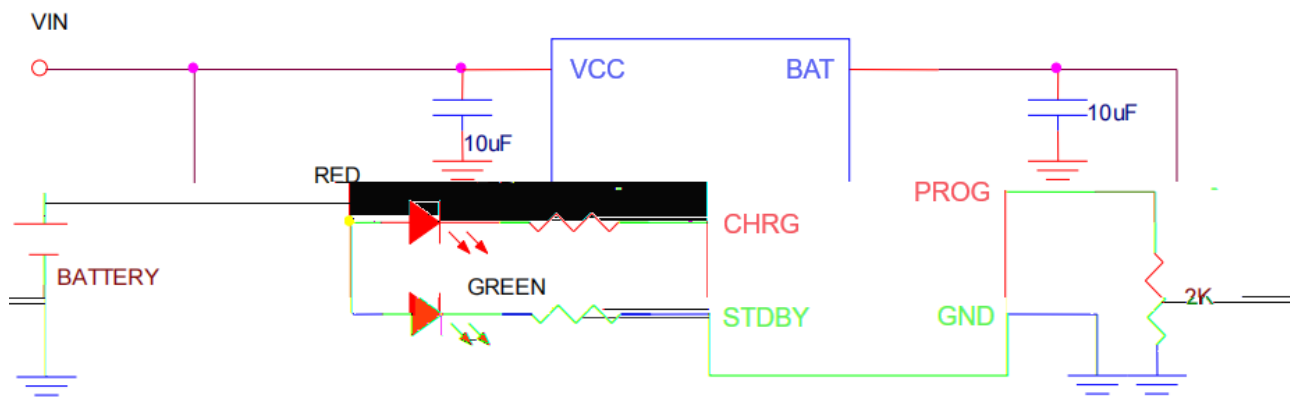
/ Applications

/ Pinning



	PROG	
	STDBY	
	VDD	
	BAT	
	GND	
	CHRG	

/ Typical Application



/ Marking

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
				±	±	

BRCL4055ZF
Rev.A Apr.-2021

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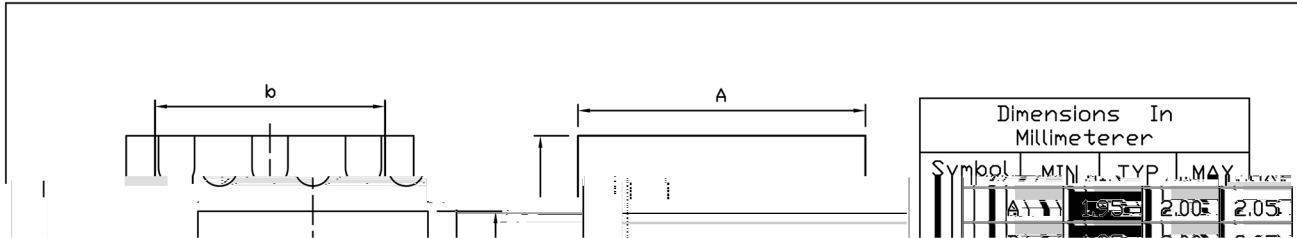
BRCL4055ZF

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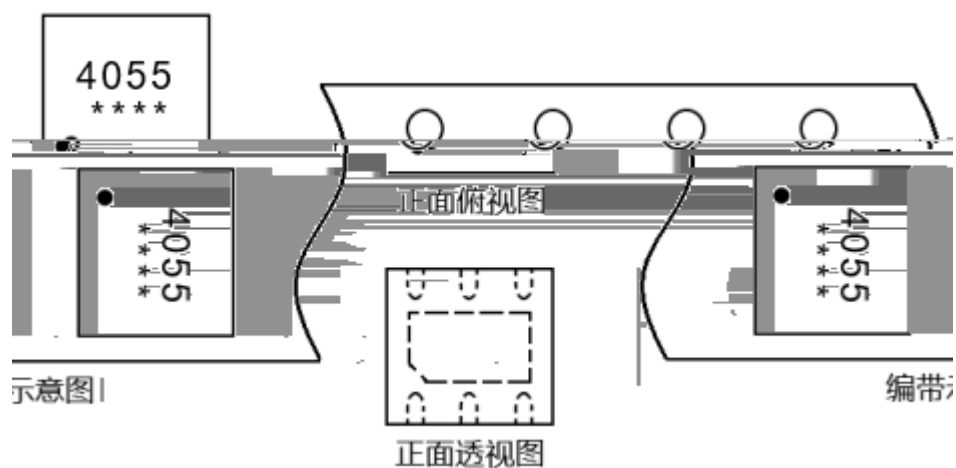
/ Package Dimensions

DFN2×2-6L-0.5

Unit:mm



/ Marking Instructions

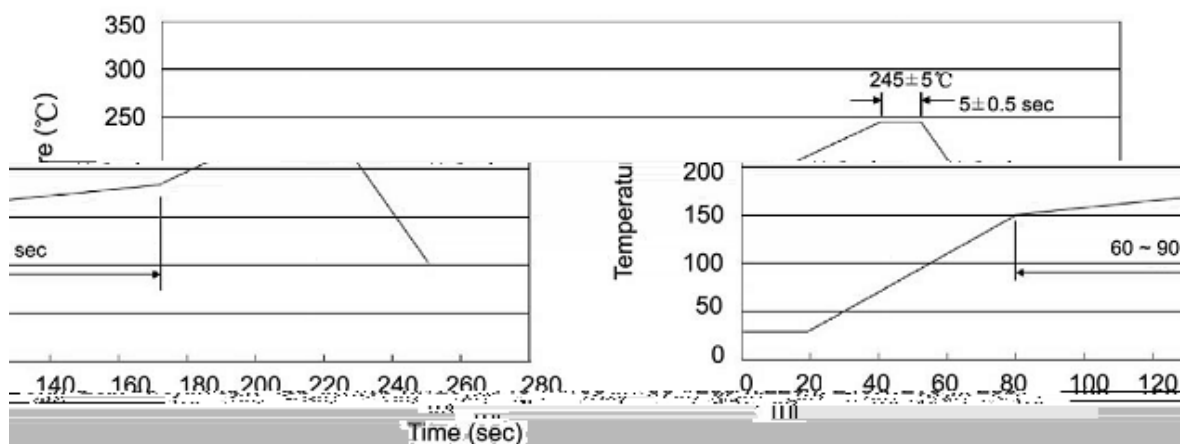


Note:

4055: Product Type.

****: 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

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/ Notices