/ Descriptions

BRCL4056BSE /

ESOP-8 BRCL4056BSE

BRCL4056BSE USB

PMOSFET

4.20V 4.20V

1/10 BRCL4056BSE

USB BRCL4056BSE

3uA BRCL4056BSE

/ Features

4.20V±1%

8V

BAT-VIN

With BAT-VIN anti-backflow function

1A MOSFET / /

Linear charge mode,built-in 1A MOSFET,Trickle /Constant current/Constant voltage three stage charging ,externally adjustable charging charging current

0V

Supports 0V battery charing

Short circuit protection,battery polarity reverse polarity protection

USB

Charges single cell Li-ion batteries Directly from USB port

/ Features

130 0

Intelligent temperature control technology,charging current will decrease with increasing temperature,130 began to decline,the lowest can be reduced to 0

Soft-Start limits inrush current

Automatic recharge

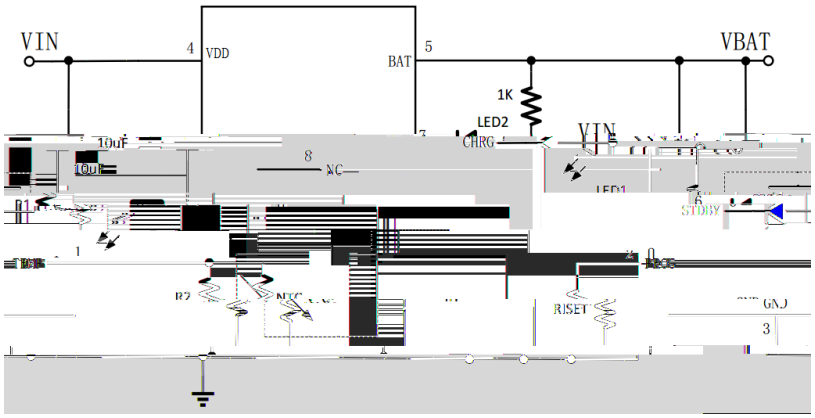
4KV ESD HBM mode

/ Applications

USB

Suitable for USB power and adapter power,Bluetooth applications and other portable devices.

/ Typical Application

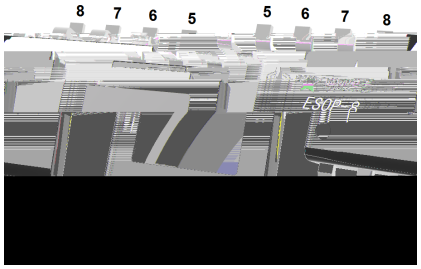


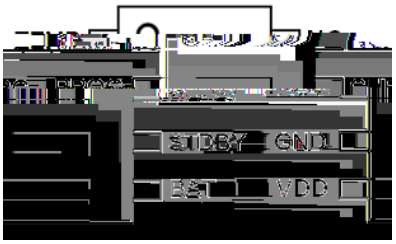
/ Indicator light working state

	L1 CHRG	L2 STDBY
/Charging	/Light	/Lights off
/Battery full	/ Lights off	/ Light
TEMP Undervoltage,battery temperature is too high,too low or other fault conditions,or no battery access(use TEMP)	/ Lights off	/ Lights off

BAT 10μF TEMP=GND

BAT termin





1		/External temperature sensing pin
2		/Charge current regulator
3		/Chip ground
4		5V/External input DC 5V
5		/Battery input
6		/Battery charge completion indicator
7		/Charging indicator
8		/Vacant

/ Marking

	V_{DD}		4	5	6	V
V_{DD}	V_{DD}	V_{DD}>BAT		100		mV
V_{DD}		V_{DD}>BAT		30		mV
	V_{BAT}	V_{DD}=5V	4.158	4.20	4.242	V
BAT	I_{BAT}	Vcc=3.5V Vbat=4.2V		±0.5	±5	μA
	V_{TRKL}	V_{BAT}		2.8		V
	V_{TRHYS}			100		mV
V_{DD}	V_{UV}	V_{DD}		3.7		V
V_{DD}	V_{UVHYS}			200		mV
	V_{msd}			1.2		V
	V_{msdHYS}			50		mV
PROG	V_{prog1}			0.1		V
PROG	V_{prog2}			1.0		V
	OTR	V_{DD}=5V		130		

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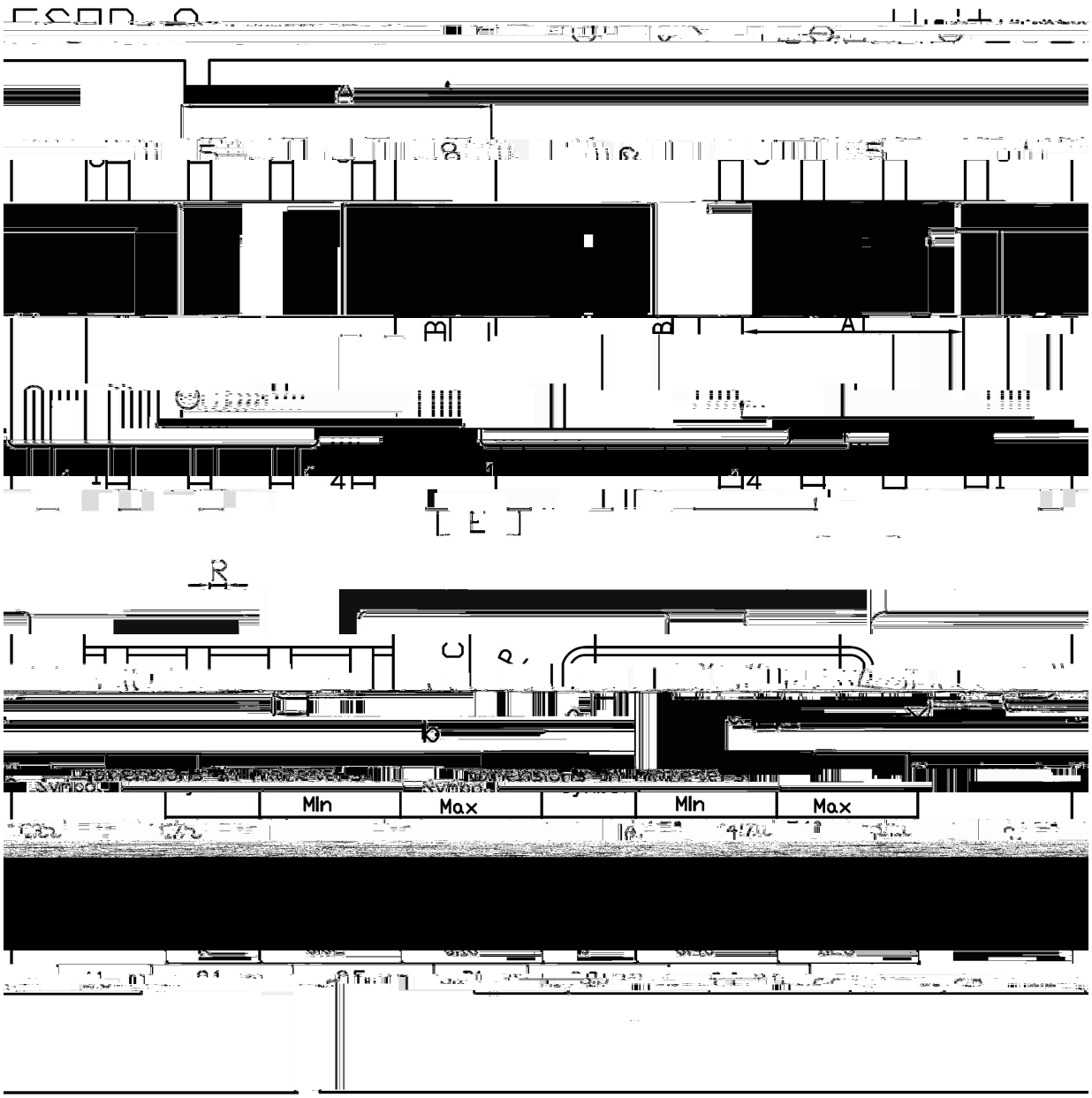
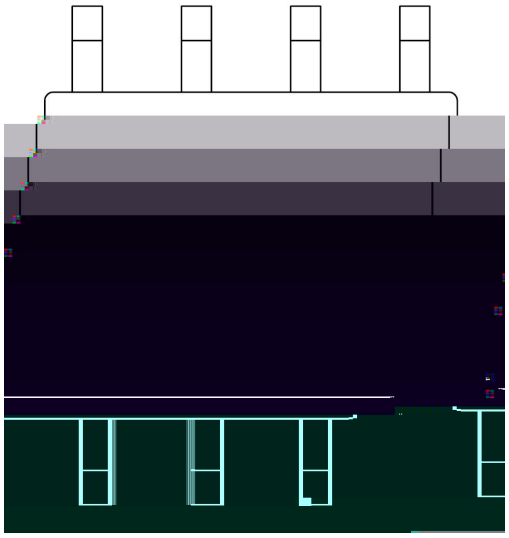
The BRCL4056BSE is a complete CC/CV linear charger for single cell lithium-ion batteries. CC/CV to charger batter by internal MOSFET. It can deliver up to 1A of charge current .No blocking diode or external current sense resistors required. BRCL4056BSE include two oÂy qO m ŋ' ®O ŋ א r Î E. jű uCE† j]o1

/ Package Dimensions



/ Marking Instructions



BR:

4056B

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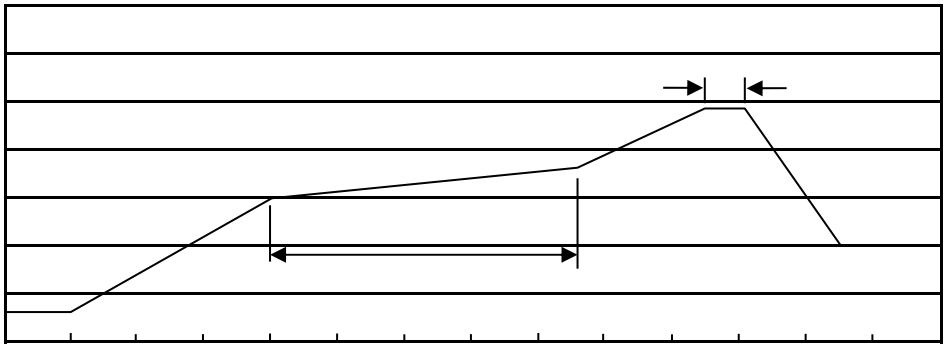
( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



± ± ± ±

/ Resistance to Soldering Heat Test Conditions

± ±

/ Packaging SPEC.

	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box

/ Notices