

# BRCL4056CSE

Rev.B Mar.-2026



DATA SHEET

BRCL4056CSE

/

**BRCL4056CSE**

Rev.B Mar.-2026

**T S HEET**

# BRCL4056CSE

Rev.B Mar.-2026



DATA SHEET

PARAMETER	SYMBOL	RATINGS	UNITS
Input Supply Voltage	$V_{IN}$	-0.3~10	V
BAT Pin Voltage	$V_{BAT}$	-0.3~10	
Other Pin Voltage	$V_{Other}$	-0.3~6.5	
Operating Ambient Temperature Range	$T_A$	-40~+85	°C
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55~+150	°C
Lead Temperature (Soldering, 10s)	$T_{solder}$	260	°C
ESD	HBM	2000	V
	MM	200	V
Continuous Output Current	$I_o$	1.0	A

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Supply Voltage	$V_{IN}$		4.5	5.0	6.0	V
Input Power Supply Current	$I_{IN}$	$V_{BAT}$				

# BRCL4056CSE

Rev.B Mar.-2026



DATA SHEET

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
BAT Pin Current	I <sub>BAT</sub>	R <sub>ISSET</sub> =14k, Constant Current Mode		100		mA
		R <sub>ISSET</sub> =2.8k, Constant Current Mode		500		mA
		R <sub>ISSET</sub> =1.4k, Constant Current Mode		1000		mA

RT



**/ Function description**

	3.3V	IC	BAT	2.6V
		BRCL4056CSE	1/10 ISET	
	BAT	2.6V		CC ISET
	BAT		BRCL4056CSE	CV
	CV		1/10	
			1/10	
1ms	ISET		ISET	100mV tTERM
<b>ISET</b>				
		ISET		
(V <sub>ISET</sub> =1V)				
			$I_{BAT} = \frac{1400 \times V_{ISET}}{R_{ISET}}$	
V <sub>FLOAT</sub> -150mV		BRCL4056CSE	BAT	
		80%	90%	
	<b>UVLO</b>			
	UVLO		VIN	VIN
110mV			UVLO	
	BRCL4056CSE			
80mV	BAT	GND	300mV	BAT GND

**CHRG FULL**

**CHRG**

**FULL**

	LED/CHRG	LED/FULL

BRCL4056CSE

TS

NTC PTC

BRCL4056CSE

VTS-L VTS-H

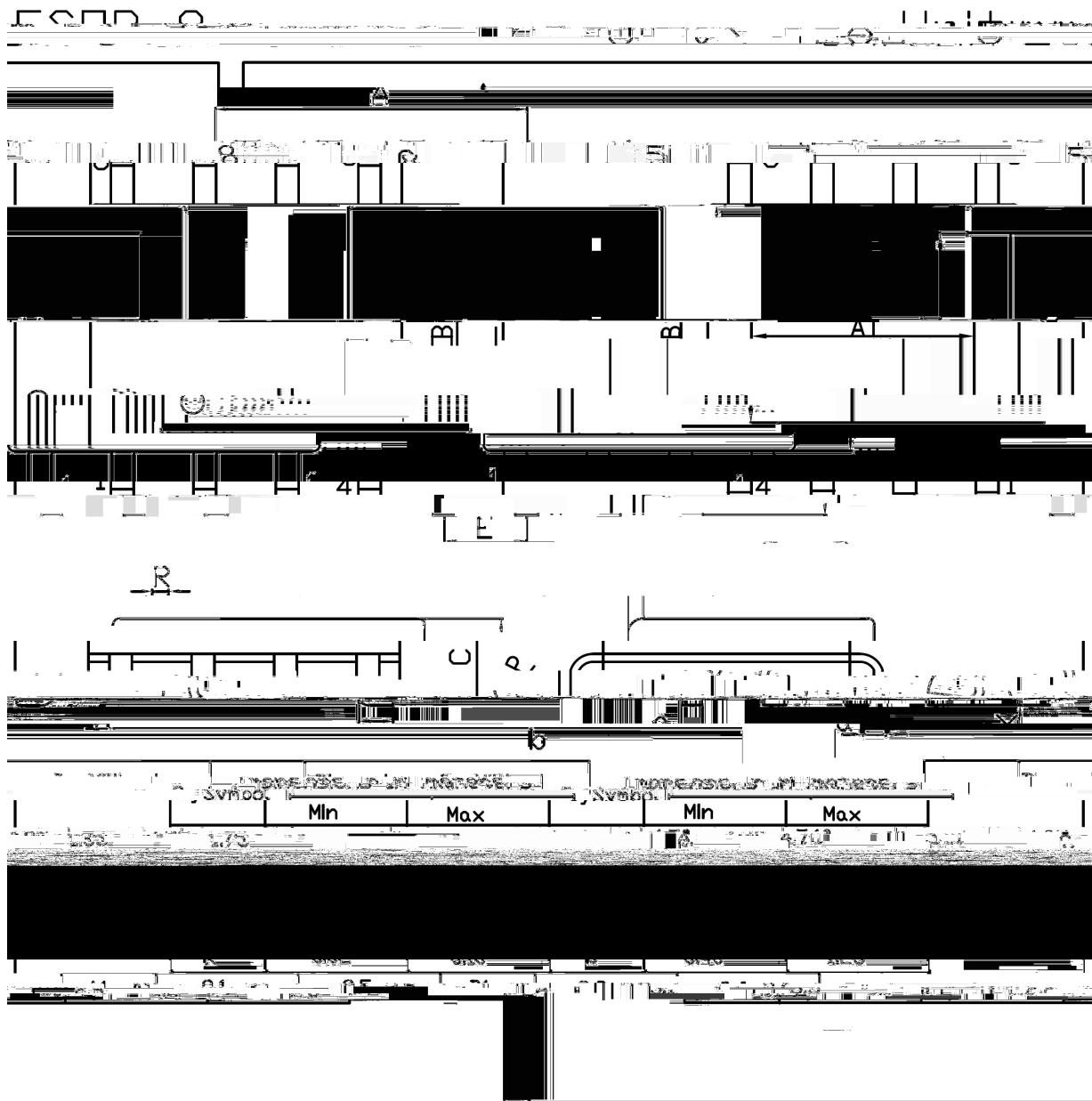
VTS-L VTS-H

VIN

VIN

TS

/ Package Dimensions





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


Note:

1            150   180            60