

5 é / Descriptions

BRCL4070SE ©%².- vU 1.2A %-eOYÿ P- ~kJ É v /É 9¿ Å O
 ò k Q - } û 5 Ù B « ^ < U Y è - k © Ž ` " • ò Ý # + ož BRCL4070SE Ä B J 4
 P-MOSFET ë ã k ... - - è k ñ Y - } Ù B y Š ~ y œ Y 8 â ' ož - 9 j 9 4.2V k
 ò - v U * %² Š ~ g Ù B — å ož ¢ P ñ 4.2V \$ e k - v ' — > 1/10 k / Ì
 Ä 2 - ož
 ¢ ÿ µ 9 t 3 J k BRCL4070SE µ 6 2 % " k / Ì Ä B ¼ • - * è ož

µC⁻ / Features

- < ÿ µ Ä å j 6.8V OVP
- < VDD ÿ µ ó 9 36V
- < ä µ † - y 9f9 >
- < u 4 0V P -
- < - v U 1.2A
- < @ Ä v É v / É 9 < " -
- < - v U ² k ´ ½ ² -
- < Ç -
- < 2.8V @ Ä v ä Ef9 >
- < Ù Á 6 P ÿ ß -
- < J ESOP-8 / x
- < ... `RoHS ö Œ k —) í D } ož

€ Ð / Applications

- < ; 9 (>
- < ÿ ¹
- < R Ĩ ö Ñ
- < %- P Ž ` " — Œ

€ Ð Ô · / Application Circuit

Œ h y) P < 9 3 * [, k 8 P < 9 3 * Š 8 ož

PIN Num.	Symbol	Function
1	TEMP	Û B “† ß • – k ž N ^a
2	6 8 5 -	- v ² ... € k* Û N Š Ů — å - v
3	GND	/ ï ^a
4	VDD	Û B Ÿ μ + v <

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Power Supply						
Input Supply Voltage	V_{DD}		4.5	5.0	6.0	V
V_{DD} Under Voltage Lockout Threshold	V					

4.2 Electrical Characteristics(Ta=25℃)

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
STDBY Pin Output Current	I _{STDBY}	V _{DD} =5V;V _{STDBY} =1V	1	2.5	5	mA
Internal Temperature Compensation						
Internal Temperature Compensation	T _{OTC}			140		-
Overtemperature Detection Threshold	T _{OTPH}	: + 3 6 N 4 :)	43%* V _{DD}	45%* V _{DD}		V
Low Temperature Detection Threshold	T _{OTPL}	: + 3 6 N 4 :)	80%* V _{DD}	82%* V _{DD}		V

4.3 Principle block diagram

BRCL4070SE-4.2

Rev.B Mar.-2026

< •×t0

ò ç / ì “ † j £ ³ 140 - Ä — > Y k BRCL4070SE Ä B ½ F Ø ê è 1 × 4 — -
vož ¥ U ... 2 / ì ½ ož ‘ š ŷ μ 9 “ ` ò 8 Ä k U ŷ G Á ° ê Ë “ † Û — - vož

< > š 8 J 6

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

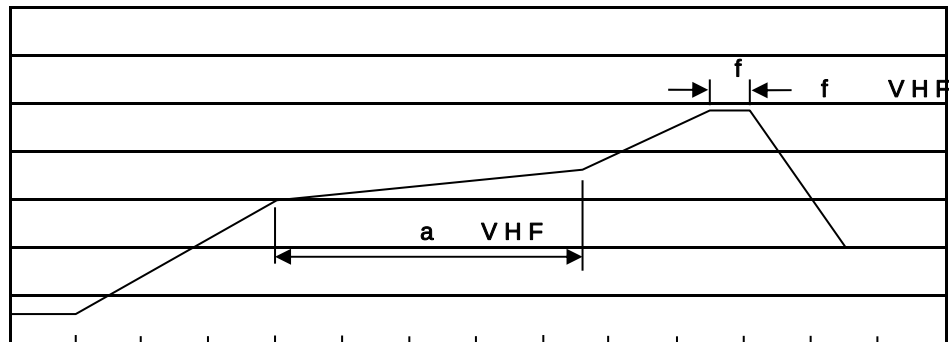
BR
4070-XX

ª ¢ y
(8 y , [W A
y ° Z W A
>>y W n ÿ ß 9 k ò n ñ P
y ÿ D Z W A k š ÿ D Z J

° Z	- ~
BRCL4070SE-4.2	BR/4070-42/*****

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a č y

10• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

20• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 s ×12	360×360×50	380×335×366

„Đ y f / Notices

Î † U ^ ñ Ä ' Î @ l c ¯ ² Á Ò ç ³ Ø o ž

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