5 é / Descriptions

BRCL4070SE ©%² . - v U 1.2A % -eO Y ÿ P - ˜ k J É v / É 9 ¿ Å O ò k Q ¬ } û 5 Ù B « ^ < U Y ë - 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 ¡ 9 4.2V k ò - v U * %² Š ˜ g Ù B — åož ¢ 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 • - * èož

¤C¯ / Features

‹ ÿ µ Ä å ¡ 6.8V OVP
‹ VDD ÿ µ ó 9 36V
‹ ä ¤ † - y 9f9 ›
‹ u 4 0V P -
‹ - v U 1.2A
‹ @Â ¥É v / É 9 < ” -
‹ - v U ² k ´ ½ ² -
‹ Ç -
‹ 2.8V@Â v ä Ef9 ›
‹ Ù Á 6 P ÿ ß –
‹ J ESOP-8 / x
‹ … `RoHS ö Õ k —)í D }ož

€ Đ / Applications

‹ ; 9 (›
‹ ÿ ¹
‹ R Ï ö Ñ
‹ % - P Ž ` ” — Õ

€ Đ Ô · / Application Circuit

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

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

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

Ô4ì × ? d / 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 :)	Š43%* VDD	45%* VDD		V
Low Temperature Detection Threshold	T_{OTPL}	: + 3 6 N 4 :)	Š	80%* VDD	82%* VDD	V

< Â ä ¢ / Principle block diagram

BRCL4070SE-4.2
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ò ç / Ì “ † ¡ £ ³ 140 - Ä — › Y k BRCL4070SE Ä B ½ F Ø ê è 1 × 4 — -
vož ¥ U … 2 / Ì ½ož ‘ š ÿ µ 9 ¨ ` ò 8 Ä k U ÿ G Á º ê Ë “ † Û — - vož

‹ >š 8 J 6

Ø ¤ =) ¢ / Package Dimensions

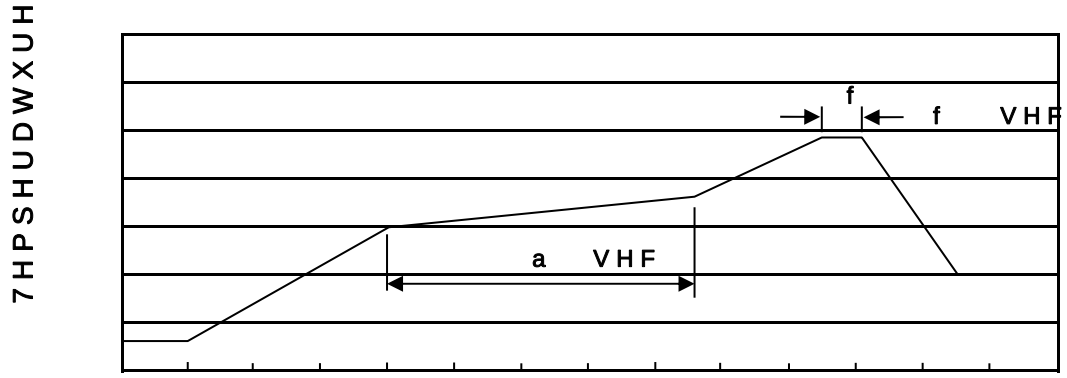
, M y ƒ / Marking Instructions

BR
4070-XX
****

ª ¢ y
(8 y ¸ [W A
y º 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

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

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



7 L P H V H F

ª ¢ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•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 Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 s ×12	360×360×50	380×335×366

„ Ð y ƒ / Notices

Î † U ^ ñ Ä ’ Î ® I c ¯ ² Á Ò ¢ ³ Øož

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