"Yت / Descriptions

BRCL4079YT-4.2 ĩ Ф ₹ D ` ˜ Ḍ ɔ –Ḣ"Ọở ╚/ở я ɻ ớ Ϫ ɔ н Ъ ↓˚ ò ị = ự Ṉ ᵘ ћ Ғ ţ "Ọ ự Æ Ъ ˚ Ẃ ゲ ᵀ ж "Ạ Ã Ẓ ŧ % ᵘ ı BRCL4079YT-4.2 њ ɔ Ф Ц ₹ к5V ゲ ы н = USB ヶ Æ ɔ ◊ ѭ ɔ – Ϫ ɔ

₹ ЛћMOSFET " ▁ ı ṇ ₄ ᵘ ћ ₅ ╝ ɔ ゲ = ₫ ˜ ‖ ㄱ ♬ ɾ ɪ ɔ ` Ϫ ɔ ɔ ╚ ı Ɋ ƍ ₹ ı ' "Ḥ Ă ă ₹ ע ᶫ □ ỷ Ọ ゾ ن ゥ Ɑ □ ỷ Ϫ ɔ ɔ я ɖ ḧ ѭ 4.2V ı Ϫ ɔ ɔ ╚ ı Ɋ ں ص ɒ Ѧ ɔ ゲ ᵘ ћ ヶ ヽ Ẹ Ϫ ɔ ɔ ╚ ƍ ゾ ѡ ヶ ╢ Ϫ ɔ я ᵅ ص ₆ ヶ ヽ Ö 1/10`H ı BRCL4079YT-4.2 ₅ ᵕ ヶ Ƀ Ϫ ɔ ᵕ Ọ

Ъ Н ı ĩ ɣ ὺ Ϫ ɔ ɔ ╚ ˇ í я ₹ ḧ ₅ ᵕ W Ϫ ɔ = ↑ ő Ậ ű ı ₹ "Y˜ Ϫ ɔ ヶ Ƀ = ゾ ϡ ɔ я è ƍ

BRCL4079YT-4.2 ゃ ŧ PDFN3Ö2-6L Ṃ Ł ı ị ŧ ѡ ṇ ɔ ت — ヵ ゾ = ѡ ṇ Ғ ţ Ъ ɨ ḧ Ṫ Ă □ ỷ ₎ ƍ ѭ -40¯C ₆ +85¯C

◕ / Features

ѡ ᴝ 36V ゾ ϡ ɔ я ɜ 6.1V ص я З ĩ

ı ヶ ヽ Ϫ ɔ ɔ ╚ ᴝ ゾ 600mA

ṇ ɻ MOSFET ₅ ╝ ɔ ゲ ₫ ˜ ‖ ㄱ

ở ╚/ở я "Ḥ Ă ı Ṿ ♬ ɔ ` Ɋ ѡ ᶻ ᵽ Ϫ ɔ ゟ ' ı ṇ ص ♬ ɭ ゾ

´ ì ѫ USB ヶ Æ ѭ D ` ˜ Ḍ ɔ – Ϫ ɔ

Ϫ ɔ ɔ ╚ ˇ í ゾ ₹ ɔ ₎ ч ₎

ĺ Ф 4.2V Ϫ ɔ ɔ я ı ヶ ỷ 1%

2.5V ╚ Ϫ ɔ Ö

C/10 Ϫ ɔ ヶ Ƀ

н ₩ Ã ï 55PA ě ɔ ɔ ╚

₅ ᵕ W Ϫ ɔ

ᶎ ᵏ ᵕ ں ˙ ⫢ ⫢ ɔ ╚

ώ ě PDFN3Ö2-6L ṇ Ṃ Ł

ẓ ᵛ / Applications

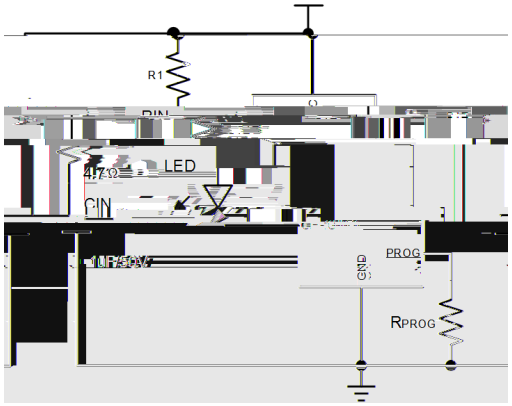
ė SGD P S6 'Ḥ ѽ н

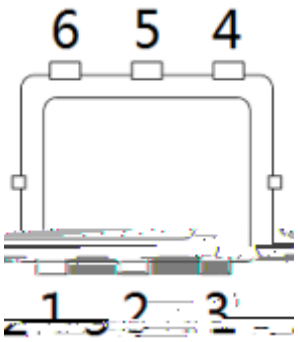
Ϫ ɔ ẓ ả = ˜ Ḥ "

Ծ w Ẓ ŧ

Ъ Н ė 'Y Ф ᵗ

ẓ ᵛ ≠ ɛ / Application Circuit





PIN Num.	Symbol	Function
1	CHRG	◖ ‖ Ã ت ڑ ¸ ▩ Ϫ ↑ õ ˝ Y ˜ ˤ
2	GND	֏ ⊐ ş
3	BAT	Ϫ ɔ ɔ ╚ ڑ ¸ Ậ ő
4	VCC	ɔ ◊ ڑ ٶ Ậ ő ا ف ì ˙ گ ب ᴴ
5	QF	Ù ᾽ ᾽ ő
6	SURJ	Ϫ ɔ ɔ ╚ ֆ ḧ Ϫ ɔ ɔ ╚ ˇ í ⁼ ȳ Ậ ő

PARAMETER	SYMBOL	RATINGS	UNITS
Input Pin Voltage	V_{VCC}	-0.3~36	V
BAT Pin Voltage	V_{BAT}	-4.2~18	
Other Pin Voltage	V_{PROG}	-0.3~5.5	
CHRG Pin Voltage	V_{CHRG}	-0.3~13	
Storage Temperature	T_{stg}	-65~+150	ɬ
Junction Temperature	T_J	150	ɬ
Operating Ambient Temperature Range	T_{OP}	-40~+85	ɬ
Lead Temperature (Soldering, 10s)	T_{solder}	260	ɬ
Power onsumption	P_D		

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Voltage Range	V					

BRCL4079YT-4.2

Rev.A Dec.-2025

DATA SHEET

ה ﻝ"Yت

BRCL4079YT-4.2 ĩ Ȼپ ɨ ở ╚/ở я ٧ │ Ɒ ` ˜ Ḍ ɔ − Χ ɔ ʜ Ḝ ı Ȣ ƍ˜ Ḅ♬ PCB ų ṕ ï ώ ě ح ز 600mA Χ ɔ ɔ ╚ ı ѡ ﻝ ╣ Χ ɔ я ٤ ỷ ѭ ° 1% BRCL4079YT-4.2 ɣ ủ Ѧ ɲ ȹ P ێ ı ' MOSFET ⁼ ♬ ذ ` ɔ ت ṇ ɹ ڭ ا ‾ Ⅱ ٦ ă ᵘ ȹ ɔ ╚ ₅ ╝ ɔ ڭ ψ ɨ % ı ᵍ Χ ɔ ɔ ت ĸ ɹ ļ ƀ Ѧ ᵘ ȹ Ƒ ţ % ᵘ ı BRCL4079YT-4.2 ǐ ᶻ ĸ USB ɔ ◊ "Ḥ Ă

₇ Ẁ �£ ᵻ ^ Ī

Ẹ VCC Ậ ő i ɔ я i ″ ˙ UVLO Ө Ȣ i Ẋ ħ 1% ﻝ ٧ ɔ ڭ ĸ PROG Ậ ő ف ì ˙ ş ở Ẹ ɔ − ف ì ˙ Χ ɔ ʜ ڑ ˛ Ḥ ı Χ ɔ ᵕ Ω Ầ Ḋ ḅ ' BAT Ậ ő ɔ я ɱ 2.5V ı Χ ɔ ʜ ف ٶ ╚ Χ ɔ ₩ Ã ɱ % ₩ Ã ï ı BRCL4079YT-4.2 ώ ě ᶻ ﻝ 1/10 ﻝ ٧ Χ ɔ ɔ ╚ ı Ȣ Æ ɔ − ɔ я i ″ ˙ Ḡ ٶ ↕ Ẉ Ȣ ف Φ ٶ ɔ ╚ Χ ɔ Ẹ BAT Ậ ő ɔ я i ″ ˙ 2.5V Ȣ i Ḥ ı Χ ɔ ʜ ف ٶ ở ╚ ₩ Ã ı Ʊ ʌ ﻝ ٧ Χ ɔ ɔ ╚ ɋ ώ ě ﻝ ɔ − Ẹ BAT Ậ ő ì ệ ѡ ﻝ ╣ Χ ɔ я ε 4.2V ζ Ḥ ı BRCL4079YT-4.2 ف ٶ ở я ₩ Ã ı Χ ɔ ɔ ╚ Ầ Ḋ ï ب Ẹ Χ ɔ ɔ ╚ ï ب ˙ ﻝ ٧ Ө 1/10 Ḥ ı Χ ɔ ᵕ Ω ┘

ƒ ≠ ↰ ₆

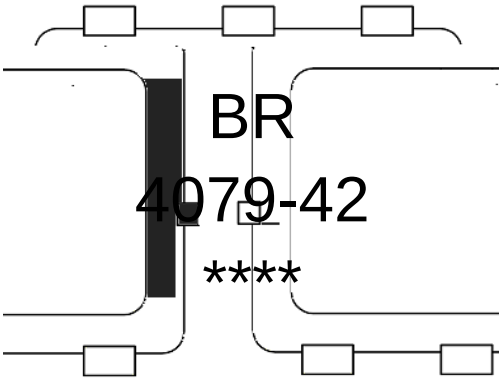
Ę Χ ɔ ɔ ╚ ƍ ʐ ˙ ѡ ﾉ ╣ Χ ɔ я ª ï ب ˙ ﾉ ヽ Ө㊋1/10`H ı Χ ɔ ᵕ Ω ﾉ Ƀ %ǂ ţ ې ص Æ ŧ ﾉ ひ h ▾ └ ⅝ ڍ ʜ ˇ í PROG Ậ ŭ ⁋ ₅ ╝ Ę PROG Ậ ŭ ɔ я Ⱨ 100mV ʌ ص tTERM`H ı Χ ɔ ﾉ Ƀ Χ ɔ ɔ ╚ q ڄ ӈ ԋ ъ ı BRCL4079YT-4.2

~ Ë ı˜

BRCL4079YT-4.2

Rev.A Dec.-2025

ł. Ļ"Ω / Marking Instructions



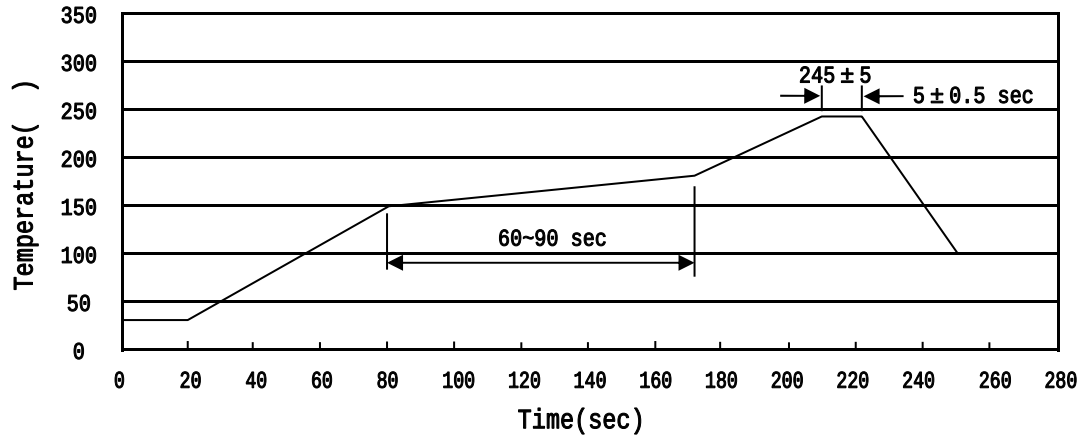
ب ˝ χ

EU χ ѭ ҂ И Ґ

73 : <075 χ ѭ ҙ N Ґ

---- χ ѭ ł ғ ӈ N Ґ ı ₰ ł ғ ӈ N Ψ ק

ѭ ∫ ╕ ẘ ´E ⅵ ƒ (ᾠ ƨ) / Wh p shudwxuh Suril oh i ru LU Uhi o r z Vr oghulq j +Se0 luhh,



ᵕ ˝ χ

1 Ĺ ♬ □ ẙ 150 Ḱ 180 ɬ ı `H ɟ 60 Ḱ 90sec;

2 Š Ë □ ẙ 245 ° 5 ɬ ı `H ɟ `Y ⅄ ѭ 5 ° 0.5sec;

3 ì ˙ ⅵ ¸ ɔ ѕ ẙ ѭ 2 Ḱ 10 ɬ /sec.

Note:

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

2.Peak Temp.:245 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

⅄ ü ɋ ⁼ `Y Ţ / Resistance to Soldering Heat Test Conditions

□ ẙ χ 260 ° 5 ɬ `H ɟ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

ɒ Ŀ ≮ — / Packaging SPEC.

ɔ ` ɣ Ŀ / REEL

Package Type	Units					Dimension		(unit mm³)
PDFN3×2-6L	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×435×230

ä ѵ ŗ Ѿ / Notices

ă ⁶ ʌ ώ ě ⃞ A õ ʒ Ụ ʒ ᴘ | ẽ d ᒧ ϕ ˝ ⃞ ⅂

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