BRCL4056CSE ĩ ₲ ڳ ₹ ɒ ` ɔ – Ḣ Ꝙ ở ╚ / ở я ɻ ớ Ⱦ ɔ ʜ Ʊ ↓ ˚ Ṃ Ꝉ ⁼ ᵩ Ṉ ᵘ

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}				

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
BAT Pin Current	I_{BAT}	R_{ISET}=14k, Constant Current Mode		100		mA
		R_{ISET}=2.8k, Constant Current Mode		500		mA
		R_{ISET}=1.4k, Constant Current Mode		1000		mA

RT

/ Function description

Ę ڑ ڭ ɔ я Ḥ 3.3V ̀H ı Χ ɔ ʰ IC Ṅ₅ ʊ ̃ ŧ þ ' BAT Â ő ɔ я Ḥ 2.6V ı Χ ɔ ̀H ƾ Ɑ ḫ ╚ Χ ɔ ₩ Ã ƥ ف ٧ ₩ Ã ï ı BRCL4056CSE ώ ĕ ٨ 1/10 ISET ٨ ٧ Χ ɔ ɔ ╚ ı Æ ɔ − ɔ я ڑ ˙ ڭ ɔ ╚ Χ ɔ Ḡ ڭ ↨ Ẉ Ę BAT Â ő ɔ я i ″ ˙ 2.6V Ɑ i ̀H ı Χ ɔ ʰ ڤ ڭ ở ╚ ₩ Ã ε CC ζ ı ISET ٨ ٧ Χ ɔ ɔ ╚ ɑ ώ ĕ ٨ ɔ − Ę BAT Â ő ɔ я ì ġ ѡ ٨ ╢ Χ ɔ я ̀H ı BRCL4056CSE ڤ ڭ ở я ₩ Ã ε CV ζ ı Χ ɔ ɔ ╚ Ụ ▒ ب Ḥ ı Ę CV ₩ Ã ï Χ ɔ ɔ ╚ ب Ḥ ˙ ٨ ٧ ɔ ╚ 1/10 ̀H ı ɔ − Χ ◗ ↑ õ ˜Y ˜

Ę Χ ɔ ɔ ╚ ƥ ڑ ˙ ѡ ٨ ╢ Χ ɔ я ª ب ₰ ḧ Ö 1/10 ̀H ı Χ ɔ Ỉ ע ɑ ٨ Þ Ỉ ↑ ţ ĩ ڼ ص پ ٮ ₳ Л ሀ ▾ └ ⅝ ڍ ʰ Ḿ ISET Ậ ő ڤ Φ ˇ í ↑ ₅ ╨ Ę ISET Ậ ő ɔ я ب 100mV Ɑ ï H ژ ٨ ص t_{TERM} ε ˇ ㎳ 1ms ζ ̀H ı Χ ɔ ɑ ٨ Þ

ISET

Χ ɔ ɔ ╚ ĩ پ ٮ ₳ ف ì ƥ ISET Ậ ő ﻝ ş ɵ ژ ɔ گ ₰ ḧ ₰ ḧ ɔ گ ⁼ Χ ɔ ɔ ╚ پ ٮ ï ˚ ȝ Ã ₰ ч ٧ (VISET=1V)

$$IBAT = \frac{1400\ xVISET}{RISET}$$

ñ Χ ɔ Ỉ ע ɑ ٨ Þ ı BRCL4056CSE Ḿ BAT Â ő i ɔ я ڤ Φ ف ٨ ˇ í Ę ɔ − ɔ я ب V_{FLOAT}-150mV ε ⁷ Ḿ Ẓ ɔ − ķ ₰ 80% ₆ 90% ζ Ɑ ï ̀H ı Χ ɔ Ỉ ע ٹ À Ầ Ḋ ف Ȝ ˜ ɔ − ɑ ٨ ̀Y ƥ ε ă ì ġ ζ ₳ ◗ Χ ɔ ↑ õ ı Ẋ d ڑ ˜ ڤ Φ ᵕ Ω ớ Χ ɔ Ỉ ע ᵏ ʊ ₰ ı ļ

UVLO

Л ل ₰ я ڎ ڃ ɔ ث Ḿ ڑ ڭ ɔ я ڤ Φ ˇ í ı Ẋ ƥ VIN ″ ₆ я ڎ ڃ ڎ ب Ɑ i ɵ ˙ Æ Χ ɔ ʰ Ȝ ̀Y ƥ ȳ ₩ Ã UVLO ɔ ث Ṅ Æ Χ ɔ ʰ Ȝ ̀Y ƥ ȳ ₩ Ã þ ' UVLO ⅝ ڍ ʰ ٨ ı پ Ψ ı ₰ VIN ″ ₆ ⅝ ɔ − ɔ я څ 110mV ɵ ˙ Χ ɔ ʰ Ṅ j ɦ گ ¸ ȳ ₩ Ã

BRCL4056CSE Л ሀ ﻭ ă ˜ ɔ − ɾ ì Ȝ ï ɔ ث ı ˈ ѿ ѯ گ Þ ƥ Ꮒ پ ă Ẓ ŧ ₳ ɔ − ɾ ì Ṁ ₇ ₰ Ɑ ̀Ω ɑ Ę BAT Â ő ɔ я Ḥ GND ɔ я 300mV ı ԋ ڎ Л ሀ Χ ɔ ŧ ث ψ Ę BAT Â ő ɔ я ŧ ″ ₆ Ḥ GND ɔ я 80mV ı ˬ Ă ㎳ ɔ −* Ẃ ì ڭ ı ﹪ ̀H Χ ɔ Ỉ ע پ À ᵏ ʊ

CHRG FULL

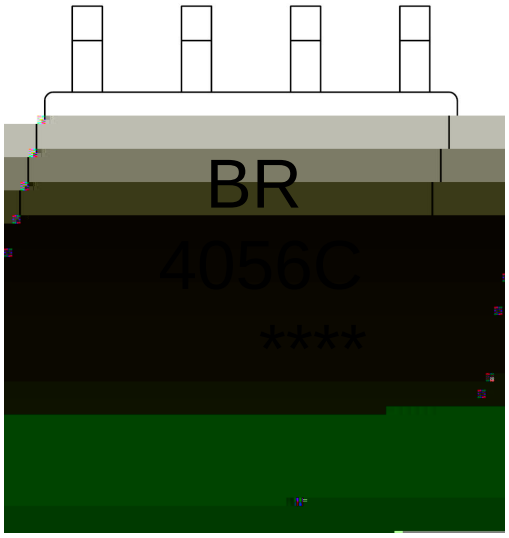
ϒɔ ↑ õ ω ь ϒ j ª[OBJ] ↑ õ ı ϒ ĩ* ƍ ϒɔ ı ᴰ ϒ ĩ ϒɔ Ḣ ă CHRG Ậ ő ƍ ϒɔ ↑ õ ï ˀI Ḥ Ẋ ƍ ϒɔ Ḣ ă ↑ õ ï Ψ ѭ ح گ FULL Ậ ő[OBJ] Ṫ Ă Ά Ã* Ḅ ˀ ɾ ı ϒɔ Ḣ ă ᵍ ˀI Ḥ ı ϒɔ ʾHѭ ح گ i

ϒɔ ↑ õ	ᴎ LED/CHRG	ᴎ LED/FULL
ϒɔ	Ş	ŏ
ϒ ◗	ŏ	Ş
ѧ ŭ ڊ ɔ – □ ỷ ầ Ẃ ɔ – ɾ ì	ŏ	ŏ
ɔ – ˈ ف ì	ڈ	Ş

BRCL4056CSE ڼ ص ⅄ ؍ TS Ậ ő[OBJ] ɔ ѧ ˡ ف ᴎ ˇ ⅄ □ ỷ ق ᾶ* □ ỷ ᴎ Ѽ ♬ ѽ ɔ ڳ ε NTC ı PTC ζ ⊐ ᵕ ሐ ʿ ѧ ʰ ڼ Ẃ ғ ı Ỉ ɔ ѧ BRCL4056CSE Ṅ Ỉ ɔ ѧ ћ Ъ ɻ ሐ VTS-L ⊐ VTS-H Ө ف Φ ⅝ ؍ ı Ѽ ḧ ĩ ε ы ƍ ϒɔ ᵑ ᵕ ሐ ʿ ѧ ʰ ⊐ ɻ ሐ Ө ε VTS-L ⊐ VTS-H ζ ʒ Ѽ VIN ѭ ᵍ ´ ı ғ ⅞ □ ỷ ҽ ỵ ɔ ت j ᴩ VIN ᒐ ʊ[OBJ] ẽ ᵠ TS ì ş ᴨ ╤ □ ỷ ₅ ⅄ ı ḟ ı ϒɔ ı ḟ* Ẃ

/ Package Dimensions

/ Marking Instructions



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EU χ	ᵻᵡ ɜ ᴎ ᑎ
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Note:

BR:	Company Code
4056C:	Product Type Code
**** :	Lot No. Code, code change with Lot No

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

ب ˝ χ

Note:

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ł ı ̀H ژ 60 Ḱ