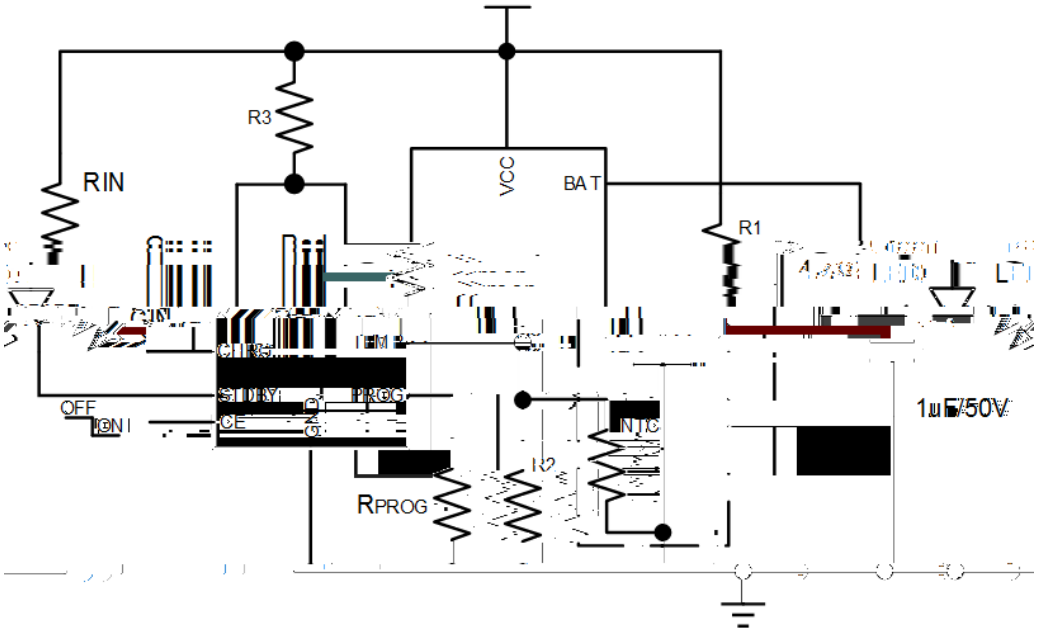
BRCL4079ZZ-4.2 ص ح ؤ ح ă ح Y `

BRCL4079ZZ-4.2 پ / ا í ـد ي ሽ ţ

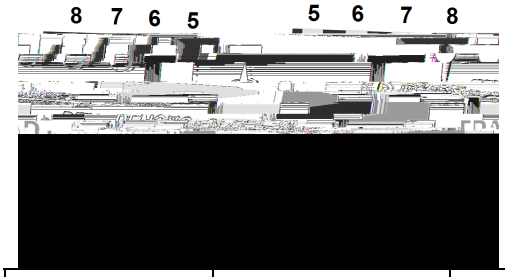
BRCL4079ZZ-4.2 ă ڵ ψ گ USB پ‌گ Ť

BRCL4079ZZ-4.2پ ሽPMOSFET ɾ i گ ث j ـد ا ሽ ڭ ڪ



4 χ ۱ YFF ۲ YFF ۱ FLQ i ĺ 717Ω i گ گ฿ YFF
ψ

5 χ FH ő j PFX í ت FH ő JQG EUF07379]]0715 * Ť j FH ő YFF

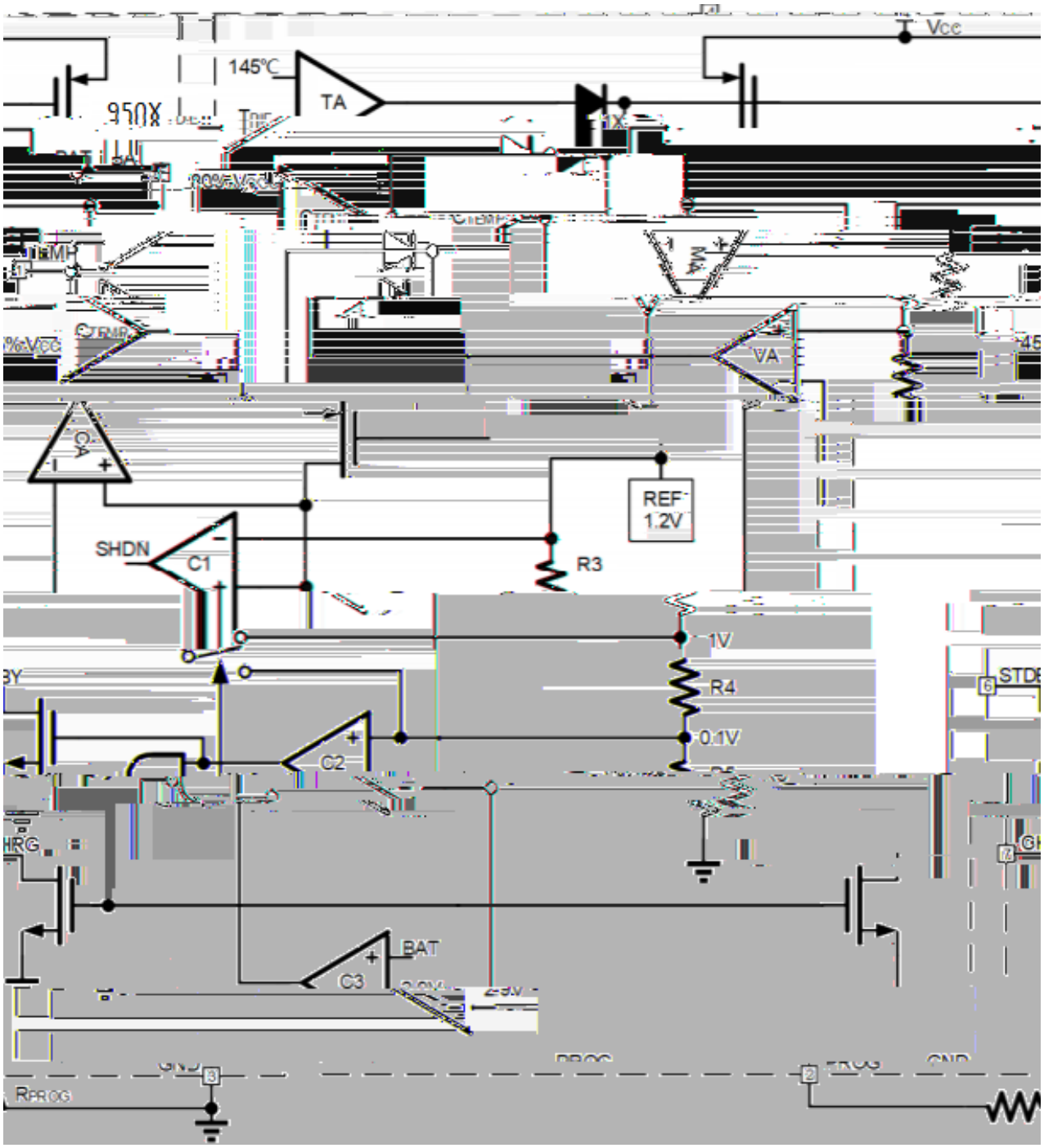


PIN Num.	Symbol	Function
1	TEMP	
2	SURJ	ذ ل گ JQG ذ `
3	GND	ڭ ᑕ ق ڭ
4	VCC	ڑ
5	BAT	ڑ
6	STDBY	ڑ ă
7	CHRG	ڑ
8	CE	أ ڑ Ң أ
HSDG	JQG	ڭ ᑕ ق ڭ

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
V_{CC} Under voltage Lockout Hysteresis	$V_{CC_UV_HYS}$	V_{CC} from High to Low	100	200	300	mV
V_{CC}-V_{BAT} Lockout Threshold	V_{ASD}	V_{CC} from Low to High	100	125	150	mV
		V_{CC} from High to Low	30	65	100	mV
C/10 Charging Termination Current	I_{TERM}	R_{PROG}=1.0k	62	95	128	mA
R_{PROG} voltage at Constant Current Mode	V_{PROG}	R_{PROG}=1.0k, Current mode	0.9	1.0	1.1	V
CHRG outputs low voltage	V_{CHRG}	I_{CHRG}=5mA		0.3	0.6	V
STDBY outputs low voltage	V_{STDBY}	I_{STDBYG}=5mA		0.3	0.6	V
Rechargeable Battery Voltage	V_{RECHRG}	V_{FLOAT}-$V_{RECHARH}$	100	150	200	mV

R
t

/ Principle block diagram



/ Function description

BRCL4079ZZ-4.2 ص ح ` پ / ۱
أ ώ ح ژ 1.0A ε ۱ ֆщ PCB ζ °1% ۷
BRCL4079ZZ-4.2 ؤ ă МhP ئ ۱ MOSFET ذ ` ث ـ ڷ Мh
گ % ث ـ Мh ţ j % BRCL4079ZZ-4.2ف USB Ť

VCC ŭ ۶ UVLO ژ ں i PROG ŭ ћ ڑ ف ۷ 1% ֆ
گ ћ ڑ ف ע BAT ŭ Ң VTRIKL
ڤ أ BRCL4079ZZ-4.2ώ ۱ 1/10 ֆ
ώ ă̈ א
BAT ŭ ۶ VTRIKL i ڤ % ώ BAT
ŭ ژ ۸ ε VFOLOAT ζ BRCL4079ZZ-4.2ڤ
ں۶ ֆ 1/10 ע ۷

پ ف PROG ŭ ћ ڑ گ ֆ PROG ŭ ژ
950 ֆ گ پ ï ш χ
RPROG=950/ICHG ICHG=950/RPROG
BAT ŭ ژ ڼ ص ծ PROG ŭ ቀ ï χ
IBAT=(VPROG×950)/RPROG
0.5A ђ ᗡ ڍ ڊ أ ί ں Ң j ע
: ћ ш o Ψ j ۷ ڸ ⋮ ـ ڶ п گ RPROG

ژ ۸ ں ϕ 1/10 ע q ۸ ₿ أ ټ ڼ ص پ
ԋ ډ PROG ۋ ف Φ ا PROG ۋ ں 100mV ï ژ ۸ ص t_{TERM}
ε ॅ 1.8ms

BRCL4079ZZ-4.2 ڤ ă ڑ ő CHRG STDBY BRCL4079ZZ-4.2
CHRG ڑ ï Ꞇ CHRG ڑ ڃ ă STDBY ڑ ï
CHRG STDBY ڑ ڃ
TEMP ő ڑ ا ĭ BAT ő 10µF ف j ا
ً LED ً LED 1-4s ذ

	ً OHG FKUJ	ا ً OHG VWGE\
ا ₿		
ڑ ج ف		
EDW ő 43u I ف +WH P S= J QG,	ا ً OHG ً OHG 407s ذ	

ڑ ɑ ح أ ф 145 ظ ة ت ث أ ا ĭ گ ₿
BRCL4079ZZ-4.2 ص p ؤ ح ا ت ا ĭ i ں ă BRCL4079ZZ-4.2

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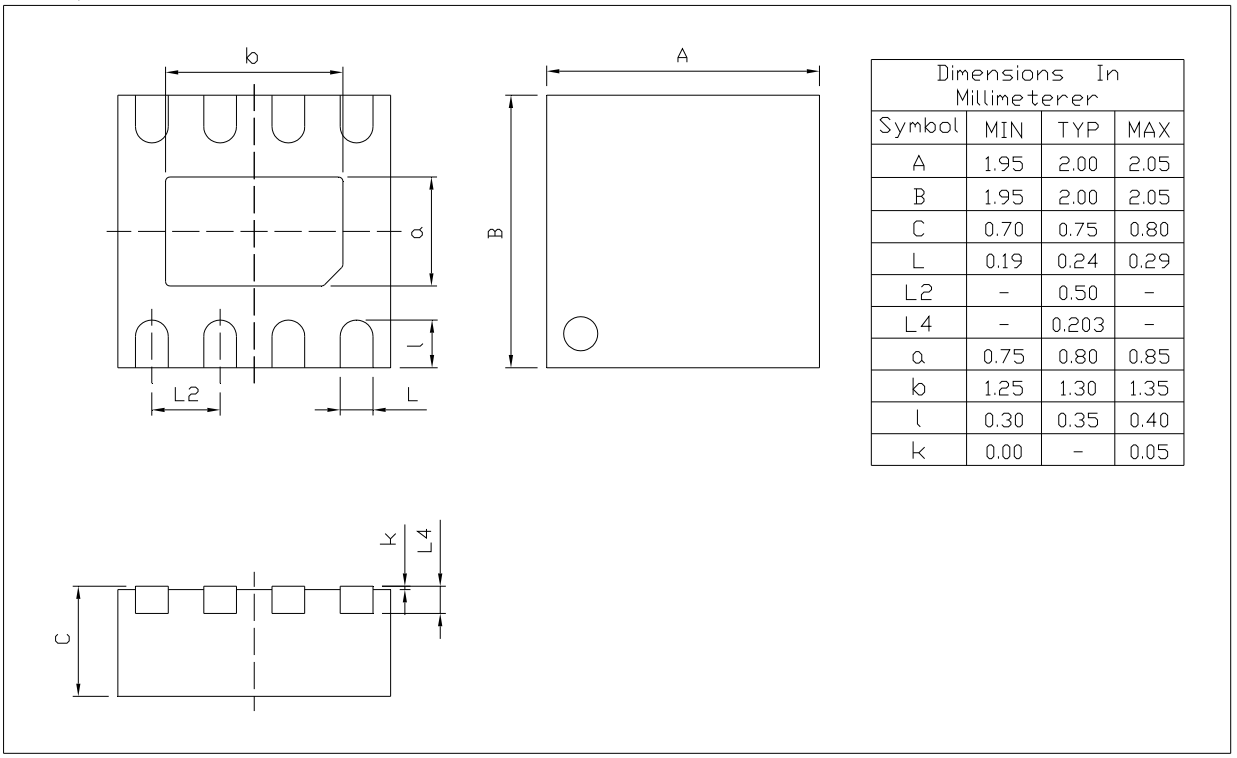
TEMP TEMP

BRCL4079ZZ-4.2

ñ ɣ ɑ ɻ ฿ BRCL4079ZZ-4.2

/ Package Dimensions

DFN2×2-8L-0.75 Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	1.95	2.00	2.05
B	1.95	2.00	2.05
C	0.70	0.75	0.80
L	0.19	0.24	0.29
L2	-	0.50	-
L4	-	0.203	-
a	0.75	0.80	0.85
b	1.25	1.30	1.35
l	0.30	0.35	0.40
k	0.00	-	0.05

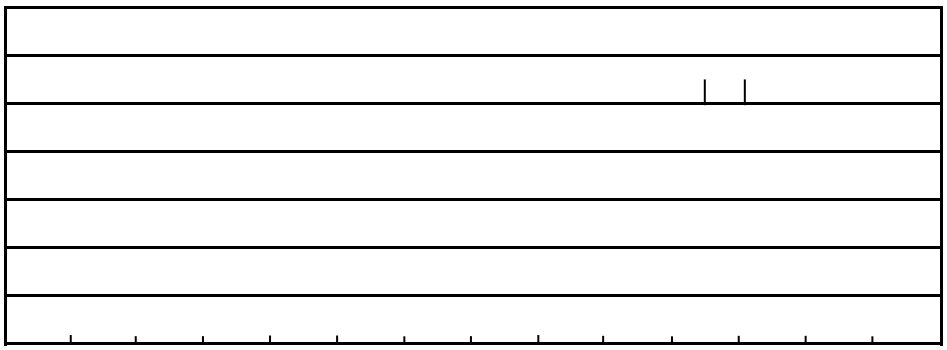
Rev.00 202012

/ Marking Instructions



ب X
7379 X
75 X ڑ 715Y
---- X ¢ Ψ

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



ب χ		Note:
1 أ	150 180 ژ 60 90sec;	1.Preheating:150~180 , Time:60~90sec.
2	245 ° 5 ژ ٨ 5 ° 0.5sec;	2.Peak Temp.:245 ° 5 , Duration:5 ° 0.5sec.
3	ɔ ھ 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

χ 260 ° 5 ژ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

Ł / REEL

Package Type	Units					Dimension		(unit mm³)
DFN2×2-8L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

/ Notices

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