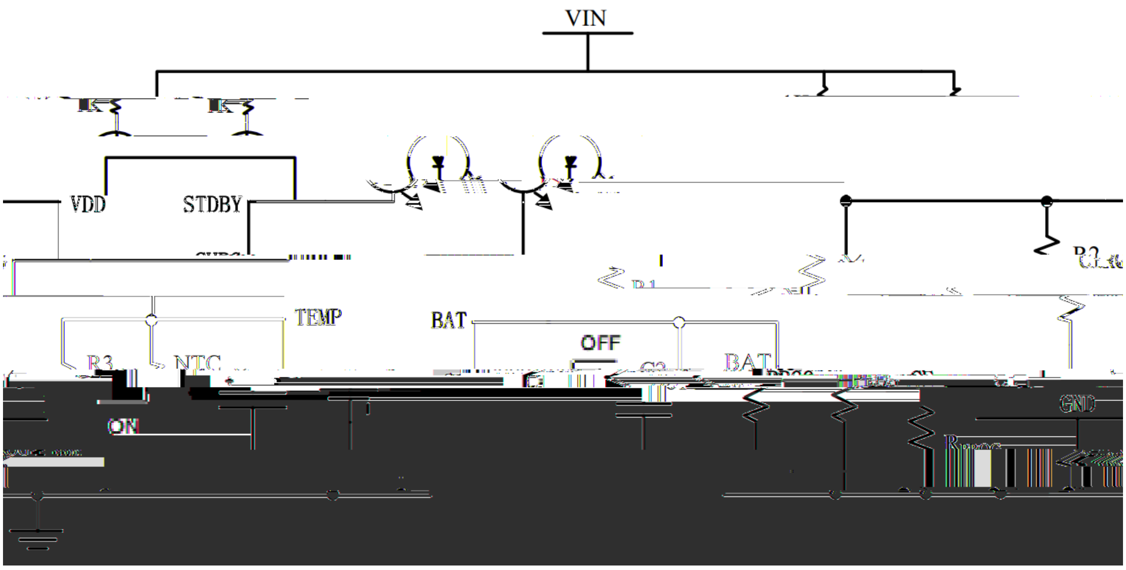
BRCL4070ZR-4.2 1.2A /
í ﮉ א BRCL4070ZR-4.2
P-MOSFET ٦ i گ j ﮉ ڳ ڭ
4.2V ڳ 4.2V ں⁶ 1/10
ɑ ฿
BRCL4070ZR-4.2 ɑ

6.8V OVP
ﻜ 36V
ﻜ
0V
1.2A
/ / s

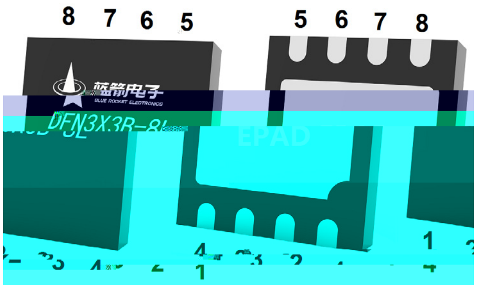
2.8V

DFN3×3B-8L
RoHS

XVE



F ò VPG 4043u I U ò VPG گ717043U



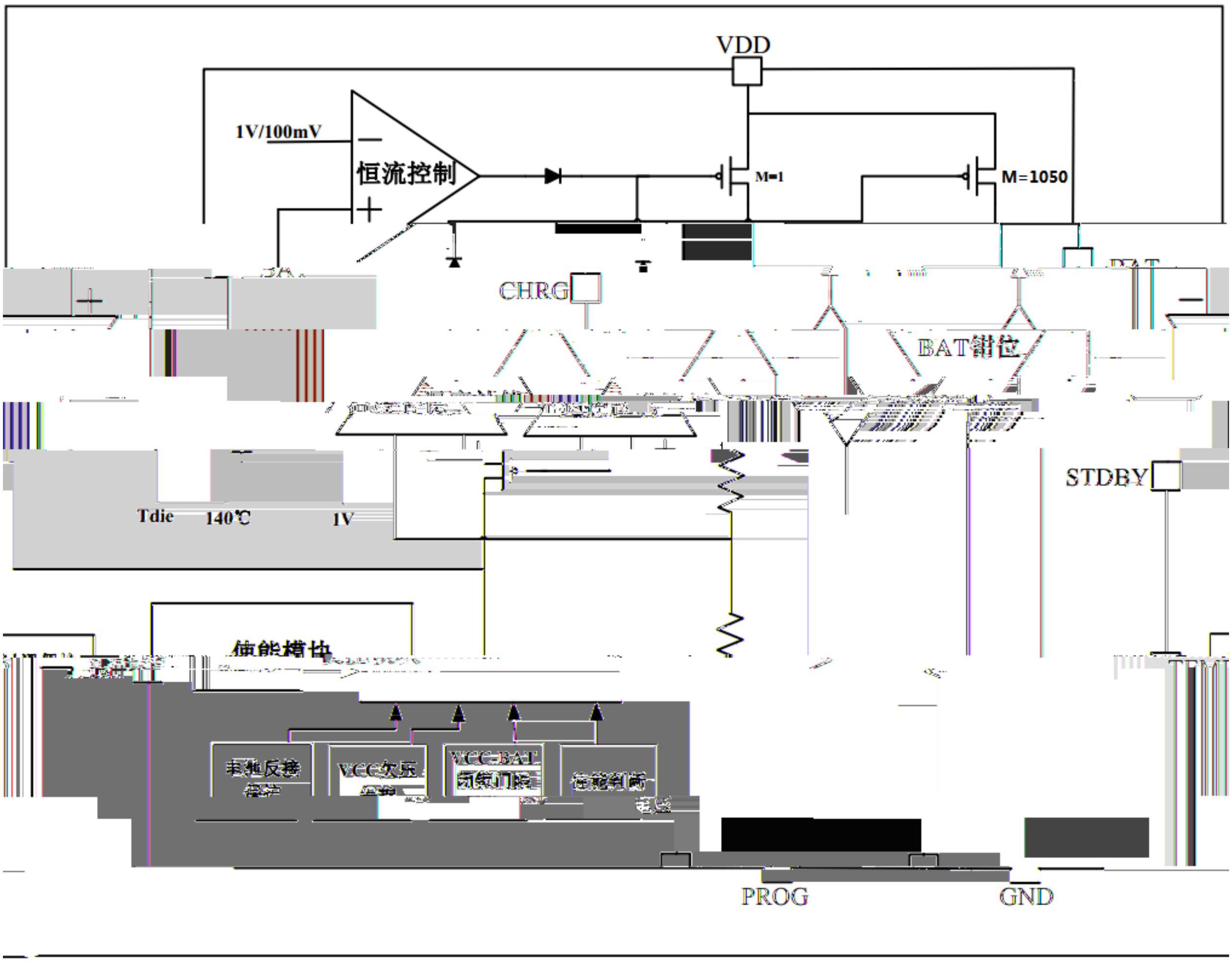
1	TEMP	j
2	SUR J	گ
3	GND	ɑ
4	VDD	8Y
5	BAT	
6	STDBY	6
7	CHRG	
8	CE	ɑ س Ḩ ﺣ ɑ ฿
EPAD	GND	ɑ

VDD/CHRG/STDBY Pin Voltage	$V_{VDD/CHRG/STDBY}$	-0.3~30	V
VCE Pin Voltage	V_{CE}	-0.3~36	
BAT Pin Voltage	V_{BAT}	-5~15	
PROG Pin Voltage	V_{PROG}	-0.3~6	
TEMP Pin Voltage	V_{TEMP}	-0.3~25	
Operating Ambient Temperature Range	T_{OP}	-40~+85	°C
Storage Temperature	T_{stg}	-55~+150	°C
Lead Temperature (Soldering, 10s)	T_{solder}	260	°C
ESD	HBM	2000	V
	MM	200	V

Input Supply Voltage	V_{DD}		4.5	5.0	6.0	V
V_{DD} Under Voltage Lockout Threshold	V_{DD_UV}	V_{DD} from Low to High		3.8		V
V_{DD} Under voltage Lockout Hysteresis	$V_{DD\_UV\_HYS}$	V_{DD} from High to Low		200		mV
Input Over-Voltage Protection Voltage	V_{DD_OVP}		6.3	6.8	7.3	V
Input Over-Voltage Protection Voltage Hysteresis	$V_{DD\_OVP\_HYS}$			500		mV
Input Power Supply Current	I_{CC}	Charging mode (R_{PROG}=1K)		240	360	μA
		Standby mode, charging terminated		70	120	μA
		Shutdown mode (R_{PROG} not connected, V_{CC}<V_{BAT})		50	100	μA
R_{PROG} voltage at Constant Current Mode	V_{PROG}	V_{DD}=5V;R_{PROG}=1K	0.85	1	1.15	V

BAT Pin Current I

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	T_{OTC}			140		
Overtemperature Detection Threshold	T_{OTPH}	WH P S QWF گ	43%*VDD	45%*VDD		V
Low Temperature Detection Threshold	T_{OTPL}	WH P S QWF گ		80%*VDD	82%*VDD	V



BRCL4070ZR-4.2 ḣ /

BRCL4070ZR-4.2 ʲ ˛ USB AC1.2A ,

6.8V

UVLO PROG 1%

BAT 2.8V,

1/5

BAT \l 2.8V

BAT BRCL4070ZR-4.2 ḣ

1/10

I $_{CH}$ =1950/R_{PROG} I_{CH}

R_{PROG} R_{PROG} 200mA

R_{PROG} =1950/0.2 = 5.25KΩ

R_{PROG} 1%

گ ﻳ ת R_{PROG}

R_{PROG}(K) I	$_{CH}$(mA)
1	1950
1.2	875
5	205
10	100

ꞇ 2ms $T_{RECHARGE}$

BAT i \l 4.05V 80

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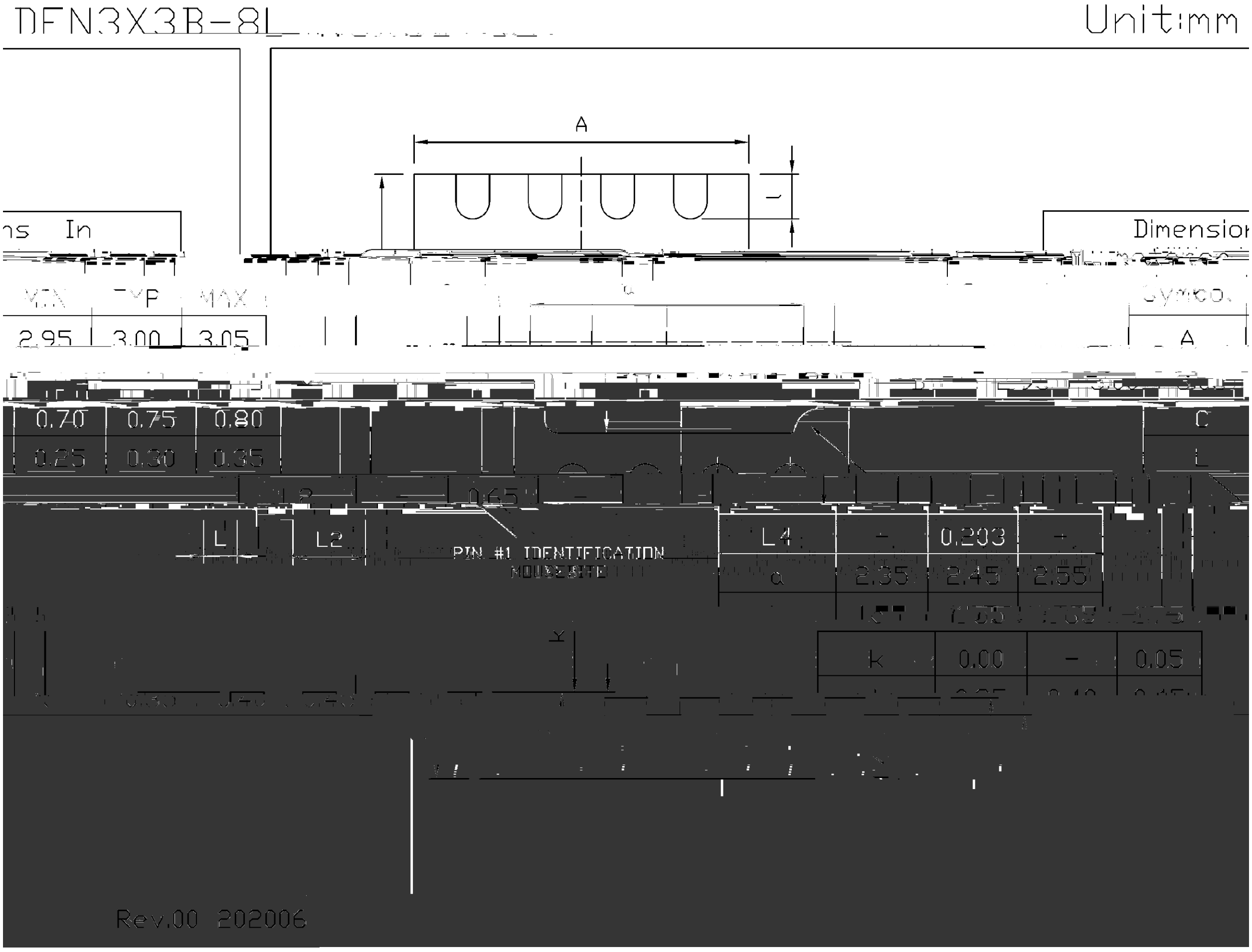
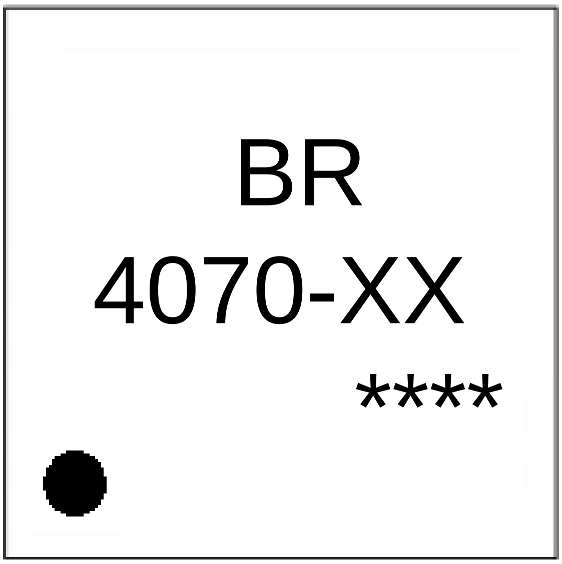
ɑ ڙ ڃ VDD VDD ₆ ڙ ڃ ڙ ں i ɑ
UVLO Ψ VDD ₆ ݎ200mV ɑ j

BRCL4070ZR-4.2 ı ɑ VDD
i ɑ VDD ï ں * ɑ
*

BRCL4070ZR-4.2 CHRG STDBY
CHRG Ḩ STDBY ݎڳ CHRG STDBY ݎڳ
j ı j

	CHRG/	STDBY/
*		
ݎ Ḩ ڴ +WH P S ,		
YGG j	ڎ	


DFN3X3B-8L
Unit:mm
A
Dimensions In
Dimension
MIN
TYP
MAX
Symbol
2.95
3.00
3.05
A
0.70
0.75
0.80
C
0.25
0.30
0.35
L
0.65
L
L2
PIN #1 IDENTIFICATION
MOUSEBITE
L4
-
0.203
-
a
2.35
2.45
2.55
k
0.00
-
0.05
Y
Rev.00 202006



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BRCL4070ZR-4.2	BR/4070-42/****

Note:

1 أ 150 180 ڑ 60 90sec;

2 245±5 ڑ 5±0.5sec;

3 ɔ 2 10 /sec.

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

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

260±5 ڑ 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units	Dimension	(unit mm^3)