

BRCL4058NSE

1A

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BRCL4058NSE

P-MOSFET

4.2V

4.2V

1/10

BRCL4058NSE

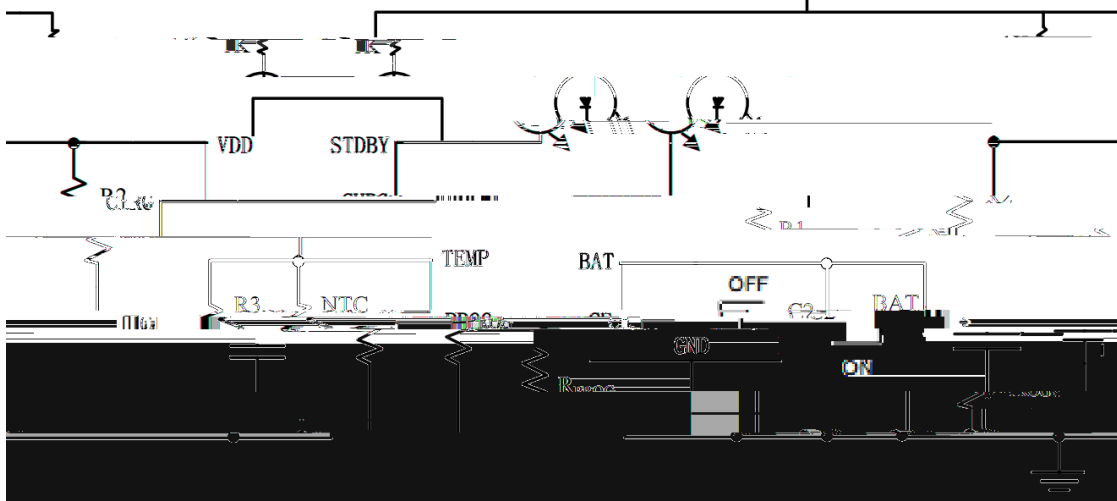
6.8V OVP
36V

1A

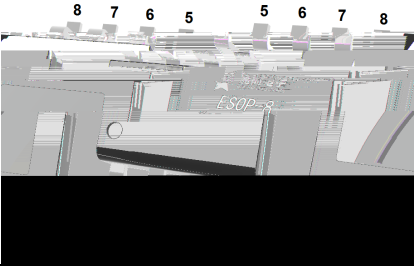
P-8
HS

V/TNT

V-TNT



C SMD 1-10uF R SMD 4.7-10R



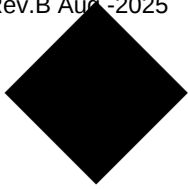
1	TEMP	
2	PROG	
3	GND	
4	VDD	5V
5	BAT	
6	STDBY	
7	CHRG	
8	CE	

VDD/CHRG/STDBY Pin Voltage	V _{VDD/CHRG/STDBY}	-0.3~36	
			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 _{BAT}	V _{DD} =5V;V _{BAT} =3.6V R _{PROG} =1K		1000		mA
		V _{DD} not connected V _{BAT} =4V		0.5	1	μA
Trickle Charge Current	I _{TRIKL}	V _{BAT} V _{TRIKL} R _{PROG} =1K		100		mA
C/10 Charging Termination Current	I _{TERM}	R _{PROG} =1K		100		mA
Trickle Charge Threshold	V _{TRIKL}	V _{BAT} from Low to High		2.8		V
Trickle Charge Hysteresis	V _{TR_HYS}	V _{BAT} from High to Low		150		mV
Regulated Output (Float) Voltage	V _{FLOAT}	V _{DD} =5V;R _{PROG} =1K	4.158	4.2	4.242	V
Rechargeable Battery Voltage	V _{RECHRG}	V _{FLOAT} -V _{RECHARH}		150		mV
Recharge Comparator Filtering Time	T _{RECHARG}	V _{BAT} from High to Low	0.8	2	4	mS
Static Drain-Source On-Resistance	R _{DS(on)}	V _{BAT} =3.8V;R _{PROG} =1K		700		mΩ

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}	T				

Rev.B Aug -2025



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USB

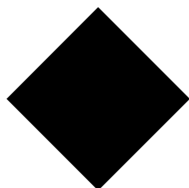
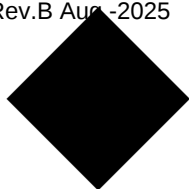
AC

1A

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36V

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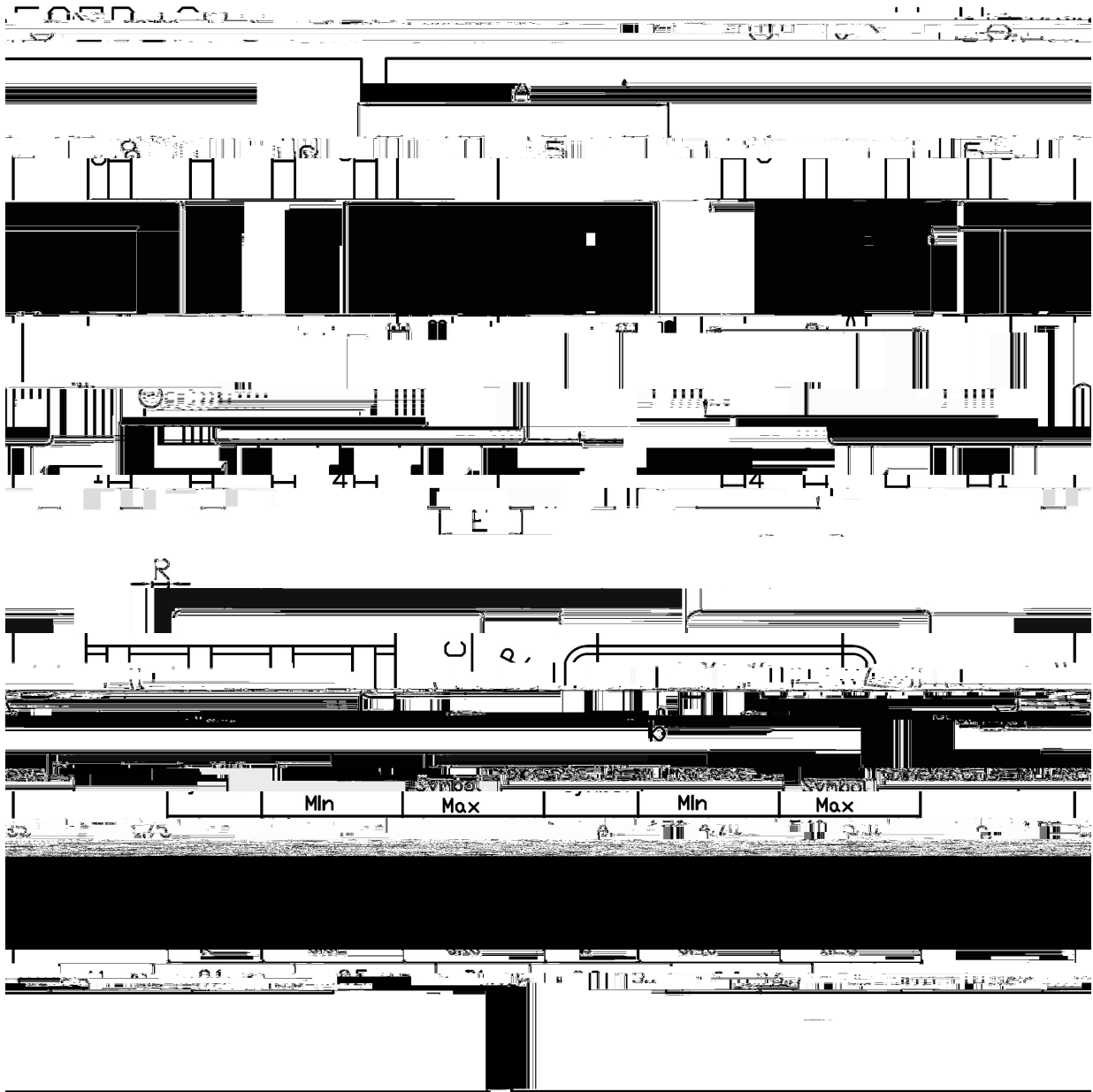
140

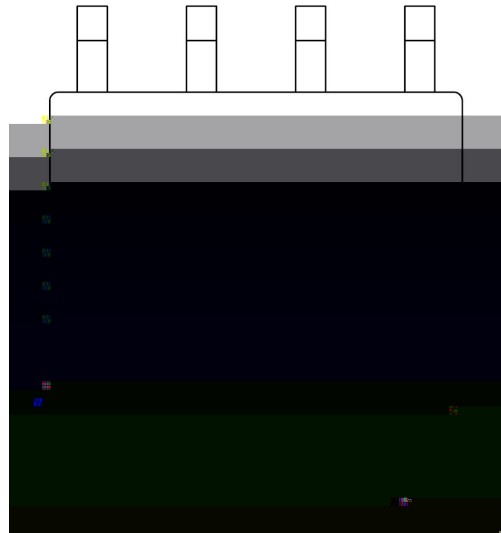
BRCL4058NSE

UVLO

VDD
VDD

VDD
200mV





BR
4058N
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BRCL4058NSE-4.2	BR/4058N-42/****

Whp shudwxuh Suriloh i ru LU Uhior z Vroghulqj +Se0luhh,

- 1

150 180

60 90sec;

2

245±5

5±0.5sec;

3

2 10

/sec.
- Note:

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

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

3. Cooling Speed: 2~10 /sec.