

BRCL4058M Series

Rev.B Feb.-2025

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Power Supply						
Input Supply Voltage	V_{DD}		4.5	5.0	6.0	V
V_{DD} Under Voltage Lockout Threshold V	V_{DD_UV}	V_{DD} from Low to High		3.8		V

Ô4i x ? d / Electrical Characteristics(Ta=25)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Indicator Pin Status CHRG/STDBY						
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						
Internal Temperature Compensation	T _{OTC}			140		-
Overtemperature Detection Threshold	T _{OTPH}	: + 3 6 N 4 :)	43%* V _{DD}	45%* V _{DD}		V
Low Temperature Detection Threshold	T _{OTPL}	: + 3 6 N 4 :)	Š	80%* V _{DD}	82%* V _{DD}	V

× 5 é

BRCL4058M SERIES ©%² .J É v /É 9‘c %-eO Yÿ P- ~ož BRCL4058M
SERIES U Y %o ‘%² USB €M êAC F~W•k ÂÝ ÜU^ 1A - v ,u 4 Â ä 30V ÿµ 9
Y C6.8V 9‘ ož

n - Ô ±°

çVDD - 9 UVLO y’ uY “ PROG - a\$• N4%² ¨† 1% —
Š ~ ê ç%² P - ~ÿ ß€, ž k•¥- ²ê•÷ož ò ç BAT - uz9 2.8V, é - ~
µ@Â v- %”ož” ¥%”/ÌU^³ 1/10 — - v kY Ž 1 v 9U %² ¶ u
R ò ë v- ož ç BAT - 9 2.8V Y ž k- ~ µÉ v%”k 4 ž g P U^
É - vož ç BAT - 9 ñ Â Ä•- 9 ž k BRCL4058M SERIES µÉ 9%”k
- v•÷ x 4ož ç - v’ — › 1/10 k- ²ê È Øož

- Ô Ô W f’

“É v%”k <‘- v ,” y I_{CH}=1000/R_{PROG}Ož I_{CH} n P - v k %y Á k R_{PROG}
n P R_{PROG}’ ñ @! JĐ•@•@úĐ•@Aà`Øyáú ° 4

x 5 é / Function description

•xt0

òç/ì“†j£ ³ 140 - Ä—›Y k BRCL4058M SERIES Ä B ½ F Ø ê è 1 x 4 —

- vož¥ U...2/ì ½ož‘šÿµ 9“`ò8 ÄkUÿG Á°êË“†Û— -
vož

>š8J6

/ìÄB k>9{g èk ž y VDD 9ož“ VDD >9{gy‘Y \$ù/ì‘4

“ Ñ%”ož òç UVLO A û~GÿéJk “ VDD A P 9ä 200mV\$ù/ì k ß-Ñ%”ož

î‘Ú8

BRCL4058M SERIES kÄÿµ 9‘ k/ìÄâ%² 9‘ •¼‘kç VDD 9Ý

9‘ f9›Y k/ì µ Ñ%”ožçÿµ€ 9 VDD ‘ñ3oÿµ8 YÄké/ì ß‘ %

”kÊÖ3o- ož

©4Æ Ce

BRCL4058M SERIES Ä ¥â•è ÛÁ6Pÿß€k CHRG y STDBYožç - ~Ô9- ÛÁ

žk CHRG t ñz 9k STDBY Ô9ä ŠÁožç P FNêñ?èžk CHRG y STDBY C Ô9ä Š

Ák °¶ožç ÛÁ6P žk1 ÛÁ6Pÿß€Nñºož

W • Û Á	CHRG/ 6 P °	STDBY/ 6 P °
3 o -		-
P -	-	
>9o• 9o• P“† ä ê z ^ { ž : + 3 6 ...	-	-
< * * N µ x N P	z .	

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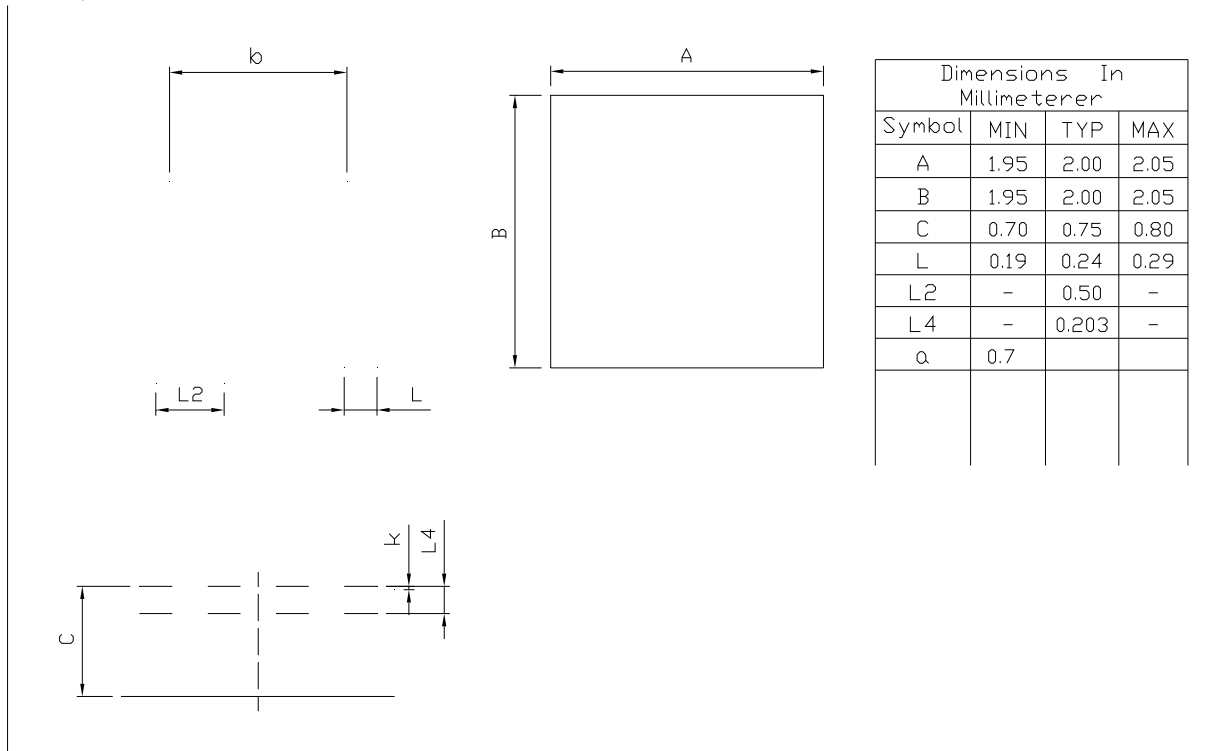
DATA SHEET

Ø ≡) ϕ / Package Dimensions

Ø □ =) φ / Package Dimensions

DFN2x2-8L-0.75

Unit:mm



Rev.00 202012

BR 4058M-XX ****

° Z y
(8 y , [W A
3 y ° Z W A
>> y W n ÿ ß 9 k ò n ñ P
y ÿ D Z W A k š ÿ D Z J

° Z	- ~
BRCL4058MSE-4.2	BR/4058M-42/****

DFN3 • 3B-8L , M y f / DFN3 • 3B-8L Marking Instructions

BR

4058M-XX

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(8 y , [W A
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> > y W n ÿ ß 9 k ò n ñ P
y ÿ D Z W A k š ÿ D Z J

° Z	--
BRCL4058MZR-4.2	BR/4058M-42/****

