■

XT4099 0h#&K2/€e↓u+eŽ+e↓

COM+XÊe↓ /Êe◄WK+X¶

µG PMOSFET È#eDÈ=M0#GLÄ

/#Ñ

u+e+e»Ê4 4.2V ÈÊf 1%8<u+e+e↓

FÊF5žeLkF Ê Wu+eÊî 0.5AØ(wµGL@

E$Ju+e+e↓È8ØK W)Ê

F(8(w$ÊÄ 8(wV+e$Ö

È7ÈÊG+e5,´ NTC +eLk#8ß

(w,ú+e× Ê+e2GF USB +e

& XT4099 8Ø+e↓È%?eL}8# 1uA Ä

X9+e È+e↓8# 65uAÄ

XT4099 ,(PLK1Ã E Ã 2.5V Ã

↓+eŽX7µ+e5,´ LED (1Ä

■ Л ■ ąH

Rev.2.1 ü Aug. 26, 2018 1

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SOT23-5	O
1	CHRG
2	GND

9 ƒ‰Ã+eB3¤

1V'	VBAT +e»	VBAT 2Ö
A	4.2V	f 1%

: F0}-a(eO<Ê

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ðÆ	´	Ÿ		¼ ß
~ ¼	VIN	-0.3˙ 30		V
TS ¼	Vts	-0.3˙ 30		
BAT ¼	Vbat	-0.3˙ 6		
CHAG	Vchrg	-0.3˙ 6		
PROG ¼	Vprog	-0.3˙ 6		
w	P_D	SOT23-6	0.6	W
BAT	Ibat	1000		mA
ß ›‰	Topa	-40˙ +85		°C
Ũ	Tstr	-65˙ +125		

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ðÆ	´	Ð	¥	Ï µ		UNIT
~ ¼	VIN				26.5	V
~	Icc	Charge mode,Rprog=2.4K		700	1000	µA
		Shutdown mode Rprog=2.4K˜ TS disabled˜		115	200	µA
₣ L ¼	Vfloat	0Ņ<TA<85Ņ, IBAT = 40mA	4.16	4.2	4.25	V
BAT	Ibat	Rprog=6k,Current mode	180	200	220	mA
		Standby mode,Vbat=4.2V	0	-2.5	-6	µA
		Shutdown mode		1	2	µA
		Battery reverse mode, VBAT=-4V		0.7		mA
		Sleep mode,VIN=0V		1	2	µA
˜Ḥ	Itrikl	Vbat<Vtrikl,Rprog=2.4k	90	100	110	mA
˜Ḥ ¼	Vtrikl	Rprog=10K˜ Vbat Rising	2.3	2.5	2.7	V
˜Ḥ ¼						

PROGEÃ+e»	V_{PROG}	V_{BAT}=3.8V, R_{PROG}=12k	1.1	1.2	1.3	V
VIN-VbatŒBl+e»	Vasd	VIN from low to high	160	210	260	mV
		VIN from high to low	70	100	130	mV
4ø L8l+eÐ	Iterm/Ic	Rprog=2.4k	0.08	0.105	0.12	mA/mA
CHRG1aÌ+eÐ	Ichrg	Vchrg=1V				

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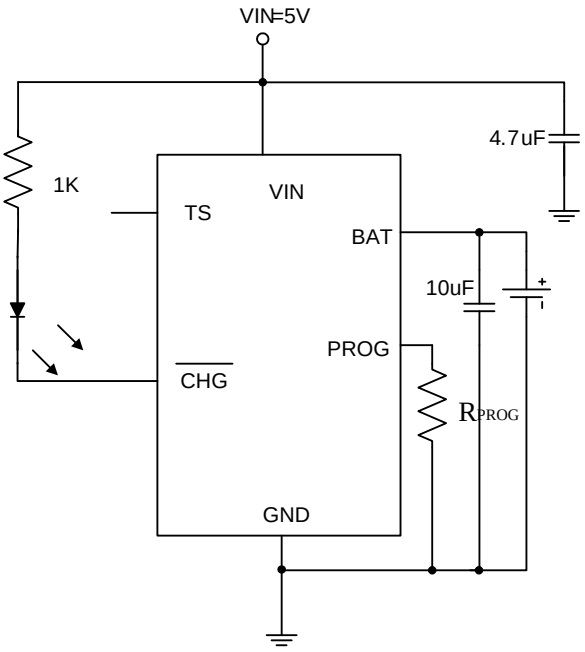

' ˜Ḥ IBAT = (1.2/R_{PROG})*1000×

	˜Ḥ	˜Ḥ		
CHRG ˆ ~	˝			

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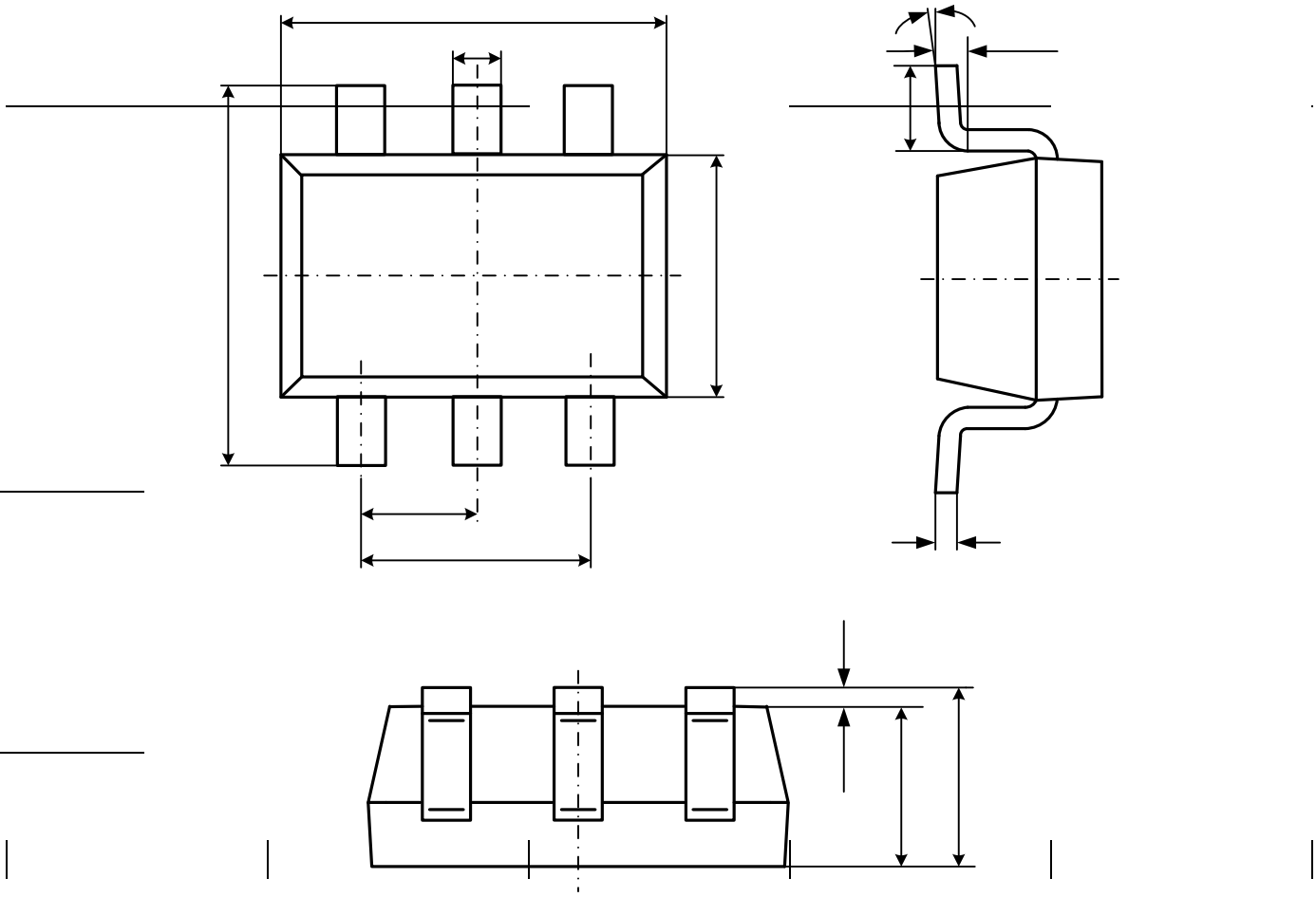
IBAT = 1200 / RPROGÄ ¦ È IBAT ƒ µ+e+e è ‡. È RPROG ƒ ƒ IREF

1 Ñ Ì+eLk è Ÿ ö Ä ‰ ‰ 0 ± 500 ¦ u+e+e è „ M ' ‚ ‰ Ñ Ö RPROG = 1200/0.5 = 2.4K »

Ÿ Ñ ö Ê Ÿ ¼ Ö È RPROG *A ± X 2 Ð 1%, H Ž Ì + a Ê k ê ® @ S . ¼ n ® s @

SOT23-6L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250		