■

XT4096
/
PMOSFET

4.2V ± 1%
0.5A

USB XT4096
1uA
65uA
XT4096 2.5V 2.5V
LED

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500mA
30V
MOSFET

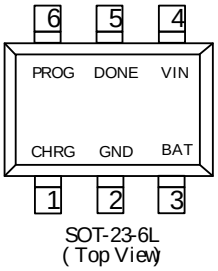
/
USB
4.2V ±1%

25μA

■

PDA MP3

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SOT-23-6L
(Top View)

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XT4096

		D	TS			M	SOT23-6

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SOT23-5L	
1	CHRG
2	GND
3	BAT
4	VIN
5	DONE
6	PROG

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CHG CHRG N MOSFET CHRG
XT4096 CHRG

GND

BAT 4.2V
VBAT ESD GND BAT 0.7mA

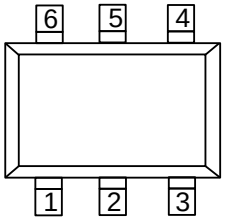
DONE DONE DONE

VIN

PROG 1%
1.2V IBAT = (1.2/RPROG) × 1000

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SOT-23-6L



SOT-23-6L
(Top View)

D6	XT4096

	VBAT	VBAT
A	4.2V	± 1%

0

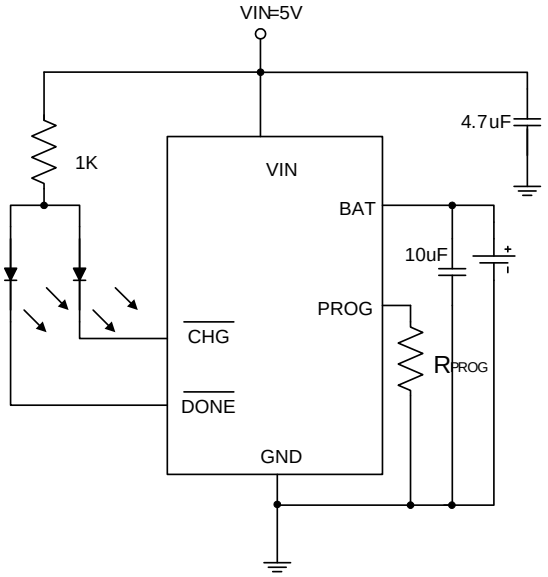
■

	VIN	-0.3 30		V
BAT	Vbat	-0.3 6		
CHAG DONE	Vchrg Vdone	-0.3 6		
PROG	Vprog	-0.3 6		
	P_D	SOT23-6	0.6	W
BAT	Ibat	600		mA
	Topa	-40 +85		

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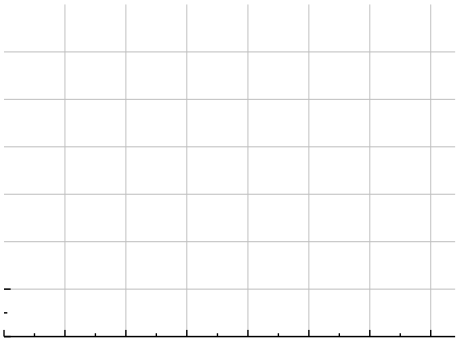
IBAT = $(1.2/R_{PROG})*1000$

CHRG				
DONE				

■

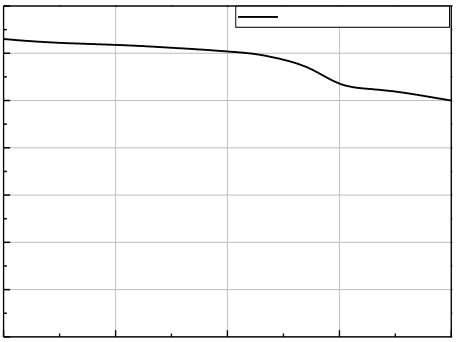
1.BAT

Vin=5V Rpog=2K VBAT IBAT

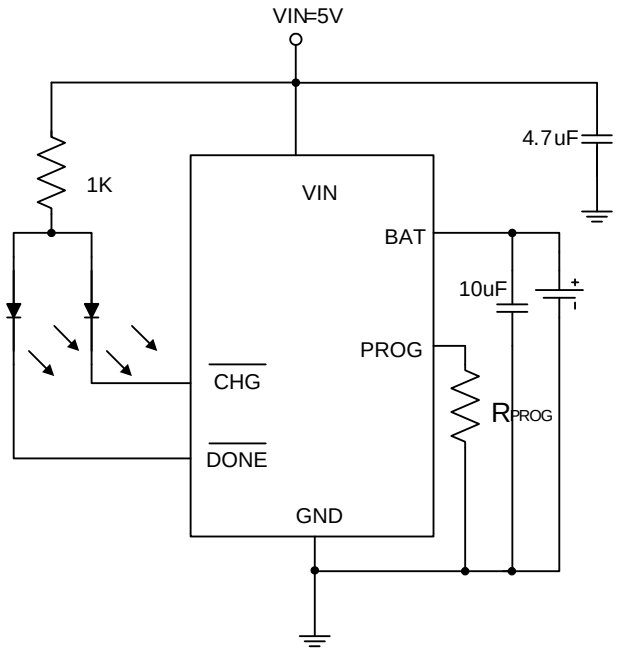


2.BATT

Vin=5V Rpog=2K VBAT=3.6V



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IBAT = 1200 / RPROG IBAT RPROG IREF

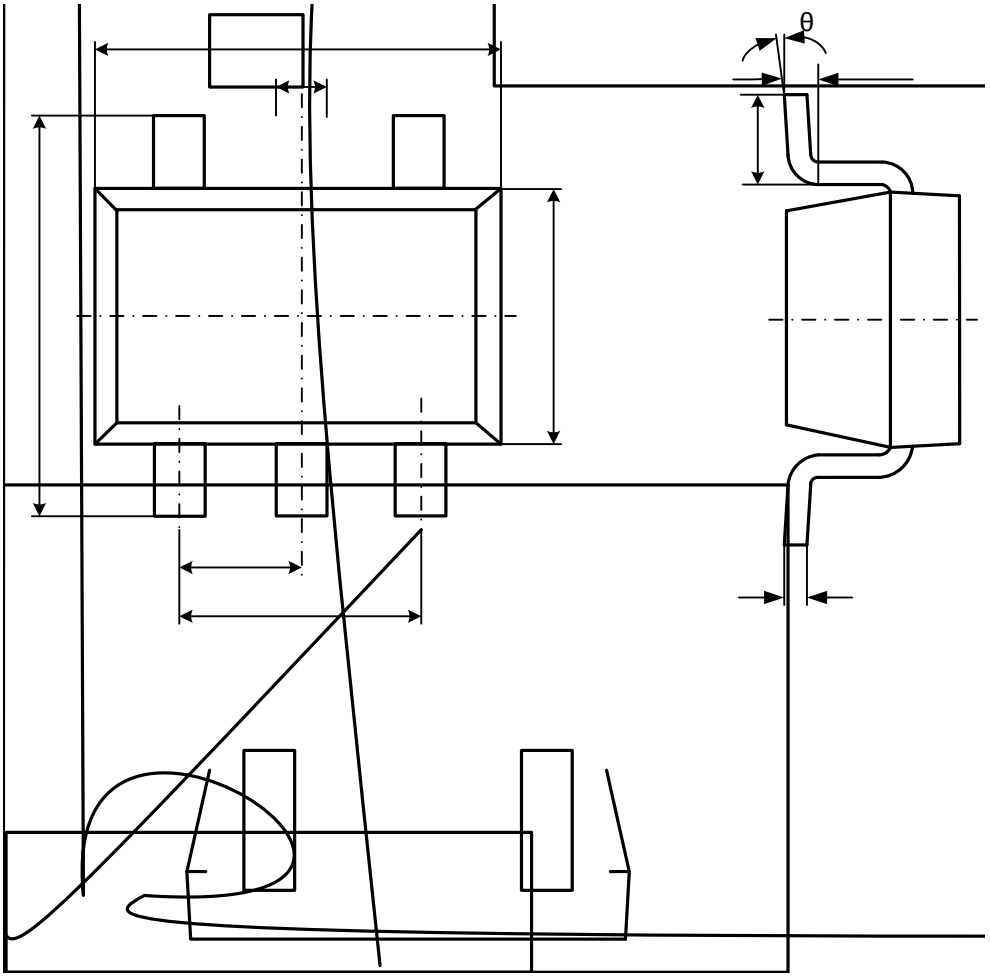
500 RPROG = 1200/0.5 = 2.4KΩ

RPROG 1%

4.7uF 10uF PCB

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SOT23-6L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°			