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XT4082

/

PMOSFET

4.2V 1%

1A

USB

XT4082

1uA

65uA XT4082 EN EN GND

EN VIN

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PROG 1%

1.2V IBAT = (1.2/R_{PROG}) 1000

IMIN 1% 1.2V

IMIN = (1.2/R_{EOC}) 1000

CE CE GND CE

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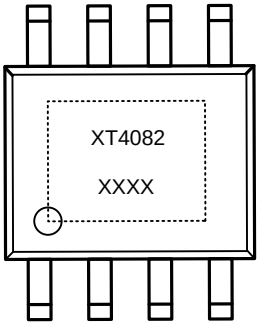
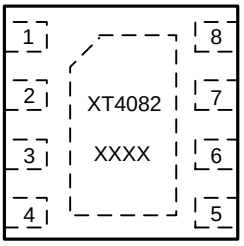
ESOP8, DFNWB2*2-8L DFNWB2*3-8L DFNWB3*3-8L



ESOP8
(TOP VIEW)



DFNWB3*3-8L/DFNWB2*3-8L/DFNWB2*2-8L
(TOP VIEW)

	XT4082

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	VIN	-0.3 30		
EN	Ven	-0.3 6		
BAT	Vbat	-0.3 6		V
CHAG PPR	Vchrg Vppr	-0.3 6		
PROG IMIN	Vprog Vimin	-0.3 6		
		ESOP8	58	

DFNWB3*3

C/W

JA

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						UNIT
	VIN	-	-	-	26.5	V
	Icc	Charge mode, R_{PROG} =2.4K	-	280	400	μA
		Shutdown mode R_{PROG} =2.4K EN disabled	-	115	200	μA
	Vfloat	0 <TA<85 , IBAT = 40mA	4.16	4.2	4.25	V
		R_{PROG} =6k,Current mode	180	200	220	mA
		R_{PROG} =1.2k,Current mode	900	1000	1100	mA
BAT	I_{BAT}	Standby mode, V_{BAT}=4.2V	0	-2.5		

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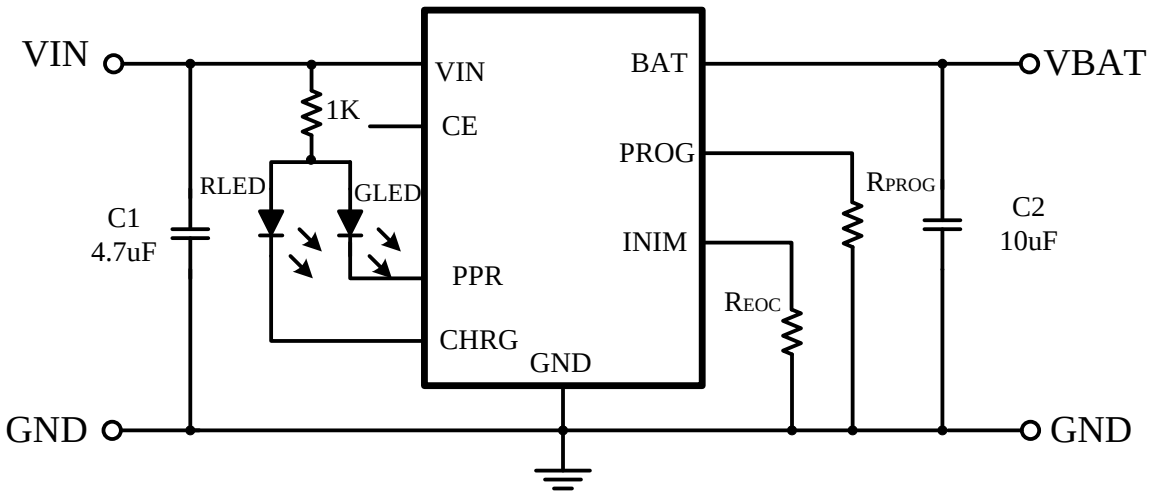

I_{BAT} = 1200 / R_{PROG} IBAT R_{PROG} PROG

500 R_{PROG} = 1200/0.5 = 2.4K

R_{PROG} 1%

EOC GND R_{EOC} , I_{EOC} = (1.2/R_{EOC})*1000 I_{EOC}

R_{EOC} IMIN 50

R_{EOC} = 1200/0.05 = 24K

R_{EOC} 1%

5% 10mA

4.7uF 10uF PCB

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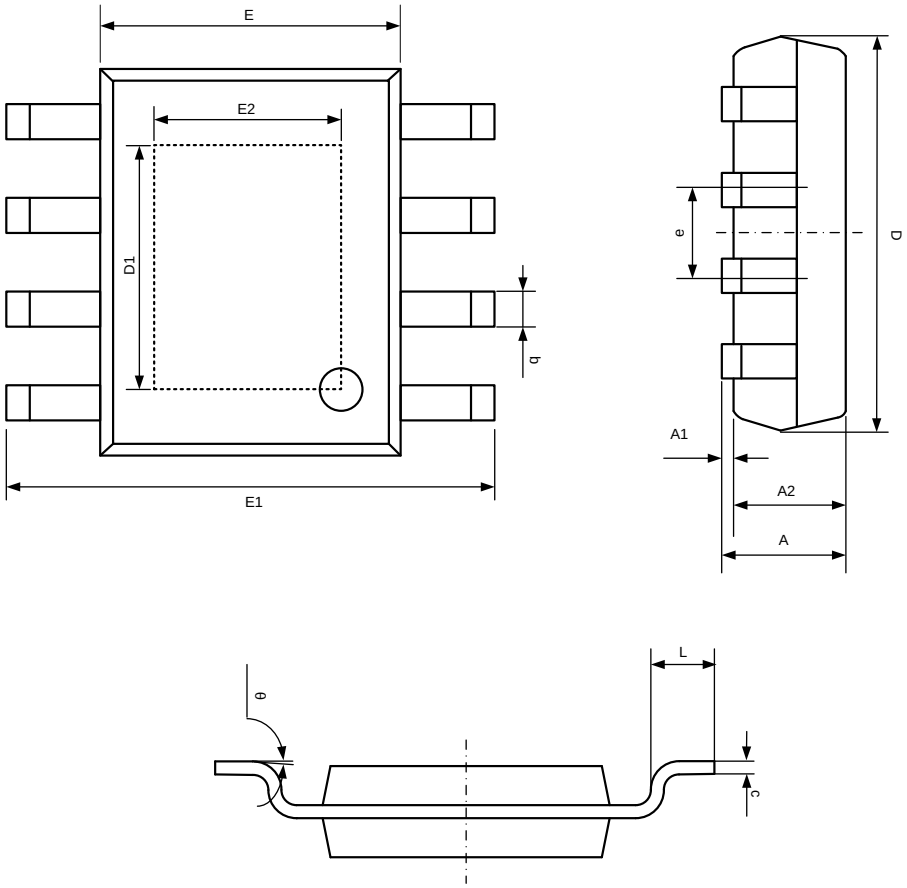
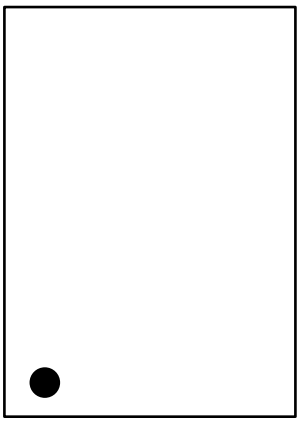
ESOP8



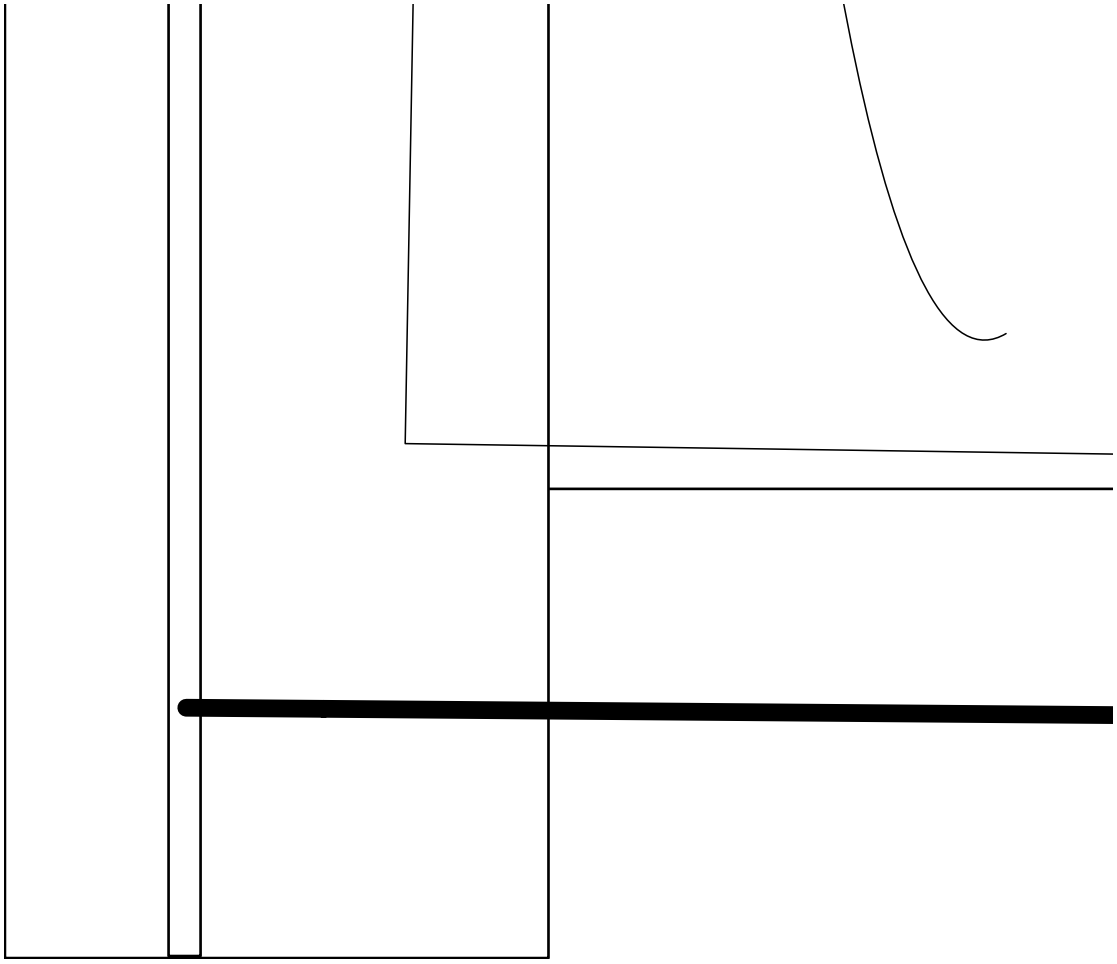
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1	0.050	0.150	0.002	0.006
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.007	0.010
D	4.700	5.100	0.185	0.200
D1	3.202	3.420	0.126	0.134
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
E2	2.313	2.513	0.091	0.099
e	1.270(BSC)		0.050(BSC)	
L	0.400	1.270	0.016	0.050
θ	0	8	0	8

DFNWB2*3-8L



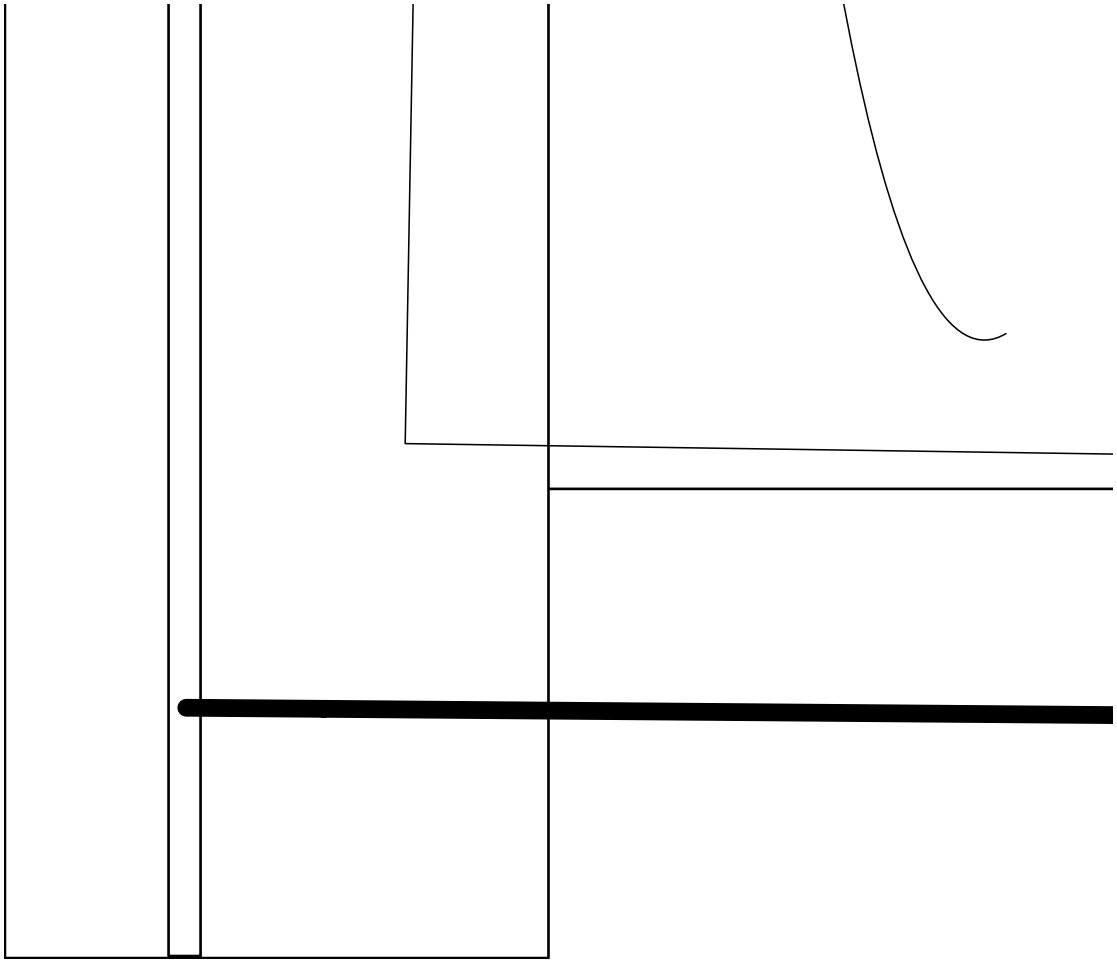
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700/0.800	0.800/0.900	0.028/0.031	

DFNWB3*3-8L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700/0.800	0.800/0.900	0.028/0.031	0.031/0.035
A1	0.000	0.050	0.000	0.002
A3	0.203REF		0.008REF	
D	2.924	3.076	0.115	0.121
E	2.924	3.076	0.115	0.121
D1	2.300	2.500	0.091	0.098
E1	1.600	1.800	0.063	0.071
k	0.200MIN		0.008MIN	
b	0.200	0.300	0.008	0.012
e	0.500TYP		0.020TYP	
L	0.324	0.476	0.013	0.019

DFNWB 2*2-8L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.450/0.500/0.550	0.550/0.600/0.650	0.018/0.020/0.022	0.022/0.024/0.026
A1	0.000	0.050	0.000	0.002
A3	0.152REF		0.006REF	
D	1.924	2.076	0.076	0.082
E	1.924	2.076	0.076	0.082