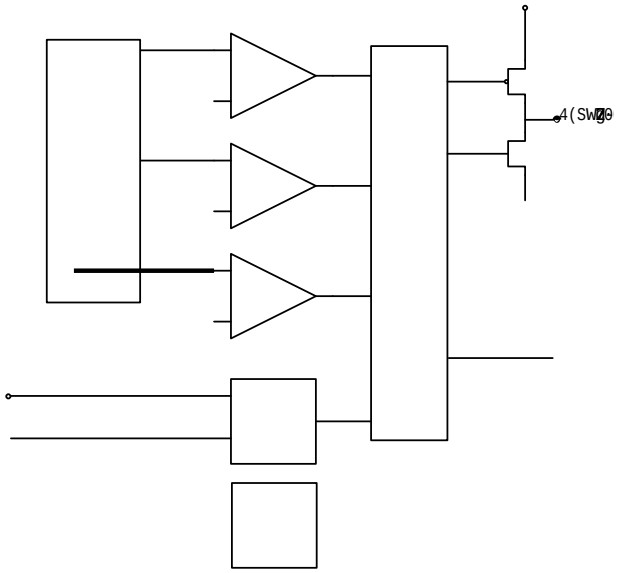
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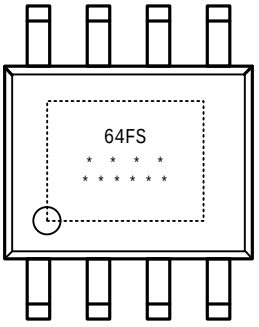
XT2064 /

DC-DC



XT2064

		F	
		S	ESOP8
		R	
		L	



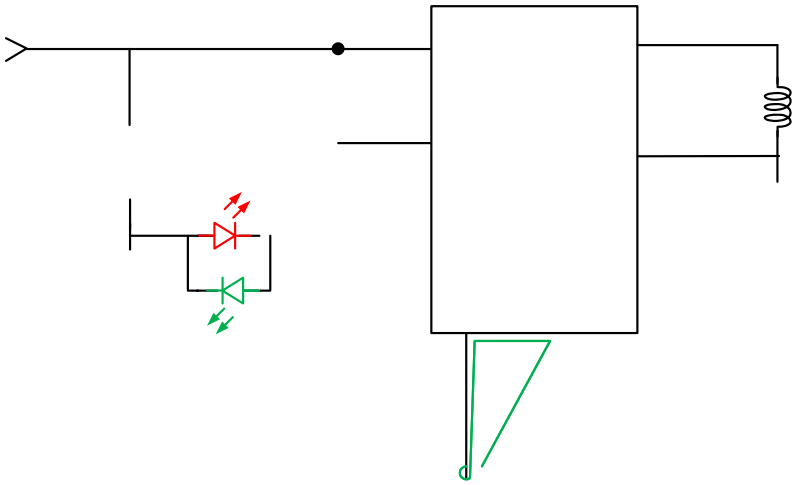
ESOP8
(TOP VIEW)

64FS	XT2064
F	
S	ESOP8
****	

VIN	VIN	V_{SS}-0.3 V_{SS}+6	V
SW	Vsw	V_{SS}-0.3 VIN+0.3	
BAT	Vbat	Vss-0.3 6	
SENSE	Vsense	V_{SS}-0.3 6	
CHAG	Vchrg	V_{SS}-0.3 6	
MODE	Vms	V_{SS}-0.3 6	
NTC	Vntc	V_{SS}-0.3 6	
FB	Vfb	V_{SS}-0.3 6	
SW	Isw	±2.5	A
	Topa	-40 +85	°C
	Tstr	-65 +125	
ESD (HBM)		400	

VIN=5V RS=0.05ohm TA=25 (y

	V_{IN}	-	4.35	5	6	V	1



➢

XT2064 PWM DC-DC VBAT SENSE

VIN UVLO 4.35V SLEEP MODE 60μA VIN UVLO LED 2.9V 25

100mV IBAT=100mV/RS 4.2V LDO 65mA LED BAT 4.07V RECHARGE

➢

XT2064 MODE MODE IBAT=100mV/RS MODE 60mV/RS XT2064 VIN 4.7V XT2064 VIN USB VIN UVLO 4.6V 500mA VIN 4.6V 4.8V 1A VIN 4.8V VIN>4.75V VIN 4 4.6V USB 500mA VIN 4.6V VIN

➢

100 153

MF103F338F

$$V_TL = VIN \times \frac{RT2 // RTL}{RT1 + RT2 // RTL}$$

$$V_TH = VIN \times \frac{RT2 // RTH}{RT1 + RT2 // RTH}$$

$$V_TL = \frac{2}{3}VIN \quad V_TH = \frac{1}{3}VIN \qquad RT1 = \frac{3 \times RTL \times RTH}{2 \times (RTL - RTH)} \quad RT2 = \frac{3 \times RTL \times RTH}{RTL - 2 \times RTH}$$

➢

$$V_OFF = VIN \times \frac{RT2 // RNTC}{RT1 + RT2 // RNTC}$$

$$VIN \times \frac{1}{3} < V_ON = (\frac{VIN}{RT1} - \frac{VH}{RC}) / \left(\frac{1}{RT1} + \frac{1}{RC} + \frac{1}{RT2 // RNTC} \right) < \frac{2}{3} \times VIN$$

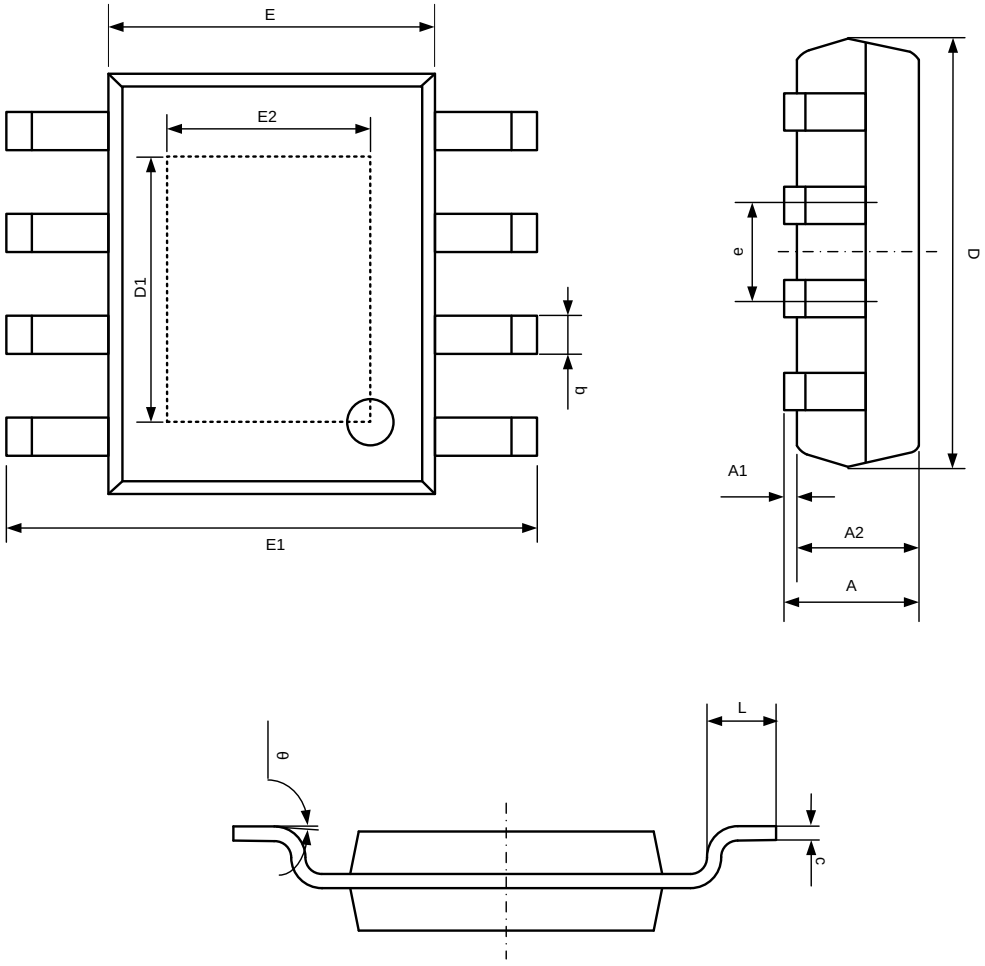
$RT2 // RNTC$ RT2

$RT2 // RNTC$ =10K=

➢

CHRG LED

- 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 °