





















Partlist exported		from	Dropbat	### 4:25
Qty	Value	Layout	Parts	
	1 LED 1 LED RESISTOR 1 PMOS 3 1K 3 1M 1 4.7uF 1 4.7uH 1 10uF 4 100K 1 649K 1 976K 1 AM-1437 2 MOSFET NP-CH 1 MCP1640T	LED0603 R0603 SOT23-3 R0603 R0603 L-US C0603 R0603 R0603 R0603 Solar cell 6-TSOP SOT23-6	D2 R5 Q1 R3 R8 R2 R4 C2 L1 C1 R1 R6 R16 R14 D1 Q2 Q5 U4	R10 R7 R12 R15
	1 MN1382S 2.0V	SOT23-3	U1	
	1 TC54VC 2.9V 3 100uF	SOT23-3 C1206	U3 C1A	C1C C1D

## Digikey Part # Discription

SI2305ADS-T1-GE3CT-ND	MOSFET P-CH 8V 5.4A SOT23-3			
P1.00KHCT-ND	RES 1.00K OHM 1/10W 1% 0603 SM			
P470KHCT-ND	RES 470K OHM 1/10W 1% 0603 SME			
490-3297-1-ND	CAP CER 4.7UF 6.3V 10% X5R 0603			
Order from coilcraft direct - EPL3012-472MLB				
445-7486-1-ND	CAP CER 10UF 10V 10% X5R 0603			
P100KHCT-ND	RES 100K OHM 1/10W 1% 0603 SME			
P649KHCT-ND	RES 649K OHM 1/10W 1% 0603 SME			
P976KHCT-ND	RES 976K OHM 1/10W 1% 0603 SME			
SI3585DV-T1-E3CT-ND	MOSFET N/P-CH 20V 2A/1.5A 6-TSOP			
MCP1640T-I/CHYCT-ND	IC BOOST SYNC ADJ 0.1A SOT23-6			

MN1382SCPCT-ND IC VOLT DETECT 2.0V CMOS SMD

TC54VC2902ECB71CT-ND IC VOLT DETECTOR 2.9V SOT23A 478-3130-1-ND CAP TANT 100UF 6.3V 20% 1210

## **Notes**

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Any color LED
VREG = 3V (try to use <5mA) select R value appropriately
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1M Ohm should work but using the 470K that was tested
To use External Trigger solder R11 instead of R12
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)
If supply low: TC54VC2102ECB713CT-ND is a
tested alternative
Not needed if not using external Trigger (R12
soldered)
Much more expensive alternative at 1206 size for 100uF (478-3345-1-ND) Allowing C1B to be populated
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d as well giving 400uF of capacitance.