

Summary

Efficiency: 97.2%
 BOM Cost: \$4.97
 Footprint: 216 mm²

CHANGE OPTIMIZATION

Configuration Options

Feedback
 Freq = 500kHz; Valley current limit = 9.6A

Enable UVLO

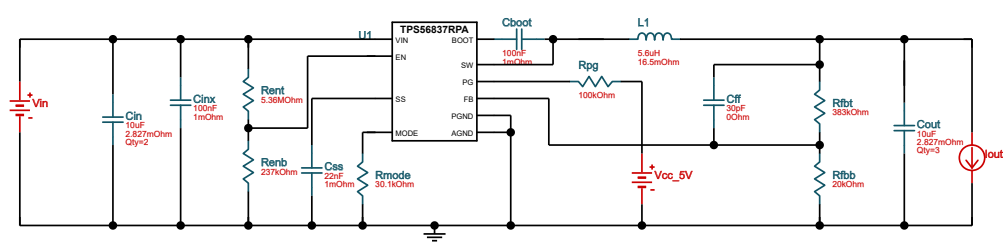
UVLO Start Threshold: 24 V
 UVLO Stop Threshold: 3.80V

Soft Start Time: 2.2 ms

REDESIGN

SCHEMATIC BILL OF MATERIALS

Click a component to find out more information or select an alternate part.



OPERATING VALUES CHARTS

Vin (V) V Iout (A) A **RECALCULATE**

Categories: Systems Information IC Capacitor Inductor Power All

Name	Value	Description
Vout Actual	12.09 V	Vout Actual calculated based on selected voltage divider resistors
Vout Tolerance	2.94%	Vout Tolerance based on IC Tolerance (no load) and voltage divider resistors if applicable
Total BOM	\$4.97	Total BOM Cost
BOM Count	18	Total Design BOM count
Vout	12 V	Operational Output Voltage
Efficiency	97.2%	Steady state efficiency
Frequency	517.22 kHz	Switching frequency
Pout	42 W	Total output power
Mode	CCM	Conduction Mode
Vout p-p	20.96 mV	Peak-to-peak output ripple voltage
Vin p-p	181.95 mV	Peak-to-peak input voltage
Duty Cycle	50.45%	Duty cycle
FootPrint	216 mm²	Total Foot Print Area of BOM components
Vin	24 V	Vin operating point
Iout	3.5 A	Iout operating point

Note: All above values are estimates. For more accurate values, please run electrical simulation.