

**Summary**

Efficiency: 95.7%  
BOM Cost: \$4.12  
Footprint: 253 mm<sup>2</sup>

[CHANGE OPTIMIZATION](#)

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**Configuration Options**

Feedback  
Valley current limit + 9.6A

Enable UVLO

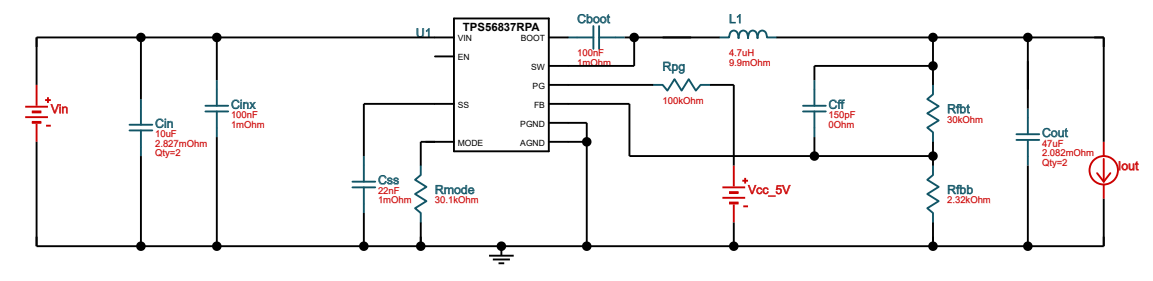
UVLO Start Threshold: 2.4 V  
UVLO Stop Threshold: 3.5 V (3.5 - 23.9 V)

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

V  A [RECALCULATE](#)

- Categories:
- System Information**
  - IC
  - Capacitor
  - Inductor
  - Power
  - All

Name	Value	Description
Vout Actual	8.36 V	Vout Actual calculated based on selected voltage divider resistors
Vout Tolerance	2.89%	Vout Tolerance based on IC Tolerance (no load) and voltage divider resistors if applicable
Total BOM	\$4.12	Total BOM Cost
BOM Count	14	Total Design BOM count
Vout	8.4 V	Operational Output Voltage
Efficiency	95.7%	Steady state efficiency
Frequency	464.39 kHz	Switching frequency
Pout	50.4 W	Total output power
Mode	CCM	Conduction Mode
Vout p-p	34.44 mV	Peak-to-peak output ripple voltage
Vin p-p	307.16 mV	Peak-to-peak input voltage
Duty Cycle	35.56%	Duty cycle
FootPrint	253 mm <sup>2</sup>	Total Foot Print Area of BOM components
Vin	24 V	Vin operating point
Iout	6 A	Iout operating point

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