8350 battery circuit board

What voltage range is the lt8350s suitable for?
With a 3V to 40Vinput voltage range,1V to 18V output voltage capability,and seamless low noise transitions between operation regions,the LT8350S is ideal for voltage regulator,battery,and super-capacitor charger applications in automotive,industrial,telecom,and battery-powered systems.

How does the lt8350 work?
With a 100k? resistor in keep-running mode, the LT8350 continues switching normally and regulates the current into ground. With a 499k? resistor in latch-off mode, the LT8350 stops switching until the EN/UVLO pin is pulled low and high to restart.

What is the pgood pin on the lt8350?
The LT8350 provides an open-drain status pin, PGOOD, which is pulled low when VFBis within ±10% of the 1V regulation voltage. The PGOOD pin is allowed to be pulled up by an external resistor to INTVCCor an external voltage source of up to 5V. Soft-Start and Fault Protection

Does the lt8350 need a resistor?
Without any resistor, the LT8350 will hiccup between 0.2V and 1.75V and go around the UP/RUN, OK/RUN, FAULT/RUN, and DOWN/STOP states until the fault condition is cleared. With a 499k? resistor, the LT8350 will latch off until the EN/UVLO is toggled. With a 100k? resistor, the LT8350 will keep running regardless of the fault.

What is the switching frequency of the lt8350?
The LT8350 uses a constant frequency control scheme between 200kHz and 2MHz. Selection of the switching frequency is a trade-off between efficiency and compo- nent size. Low frequency operation improves efficiency by reducing MOSFET switching losses, but requires larger inductor and capacitor values.

What are the fault modes for the lt8350?
Using a single resistor from SS to VREF, the LT8350 can be set in three different fault modes dur - ing output short-circuit fault condition: hiccup (no resis- tor), latch-off (499k), and keep-running (100k). See more details in the Applications Information section. RT (Pin 18)Switching Frequency Setting.

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Evaluation circuit EVAL-LT8350-AZ is a 40V synchronous buck-boost converter featuring the ...

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EVAL-LT8350-AZ is an evaluation circuit EVAL-LT8350-AZ a 40V synchronous buck-boost converter featuring the LT®8350. It drives up to 2.5A load at 12V output when VIN is between 9V and 40V and will run down to 3VIN with reduced output current. EVAL-LT8350-AZ runs at 350KHz switching frequency with spread spectrum frequency modulation (SSFM ...

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LT8350 is ideal for voltage regulator, battery and supercapacitor charger applications in automotive, industrial, telecom, and battery powered systems. The LT8350 provides input or output current monitor and power good flag. Robust fault protection is provided to detect output short-circuit condition, during which the

The LT8350 provides input or output current monitor and power good flag. Robust fault protection is provided to detect output short-circuit condition, during which the LT8350 retries, latches off, or keeps running. Evaluation circuit EVAL-LT8350-AZ is a 40 V synchronous buck-boost converter featuring the LT8350.

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