



5V/250mA, 5V/100mA Micropower Low Dropout Regulator with ENABLE

Description

The CS8391 is a precision, dual 5V micropower linear voltage regulator. The switched primary output (V_{OUT1}) supplies up to 250mA while the secondary (V_{OUT2}) is capable of supplying 100mA. Both outputs have a maximum dropout voltage of 600mV and low reverse current. Quiescent current drain is typically 150 μ A when supplying 100 μ A from each output.

The ENABLE input provides logic

level control of the primary output. With the primary output disabled, quiescent current drain is typically 100 μ A when supplying 100 μ A from the secondary output.

The CS8391 is extremely robust with protection provided for reverse battery, short circuit, and overtemperature on both outputs.

The CS8391 is available in a 5-lead D²PAK.

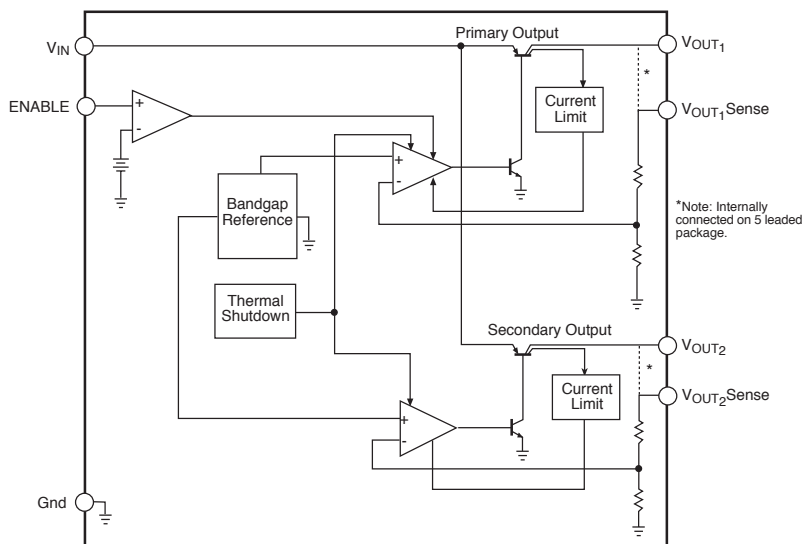
Features

- 5V, 250mA Primary Output
- 5V, 100mA Secondary Output
- 3% Tolerance, Both Outputs
- ON/OFF Control for Primary Output
- Low Quiescent Current Drain (100 μ A V_{OUT2})
- Low Reverse Current
- Protection Features
 - Reverse Battery (-15V)
 - Short Circuit
 - Overtemperature

Absolute Maximum Ratings

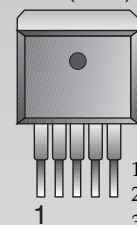
Input Voltage.....	-15V to 45V
Power Dissipation.....	Internally Limited
Operating Temperature Range.....	-40°C to +125°C
Maximum Junction Temperature	-40°C to +150°C
Storage Temperature Range	-55°C to +150°C
Electrostatic Discharge (Human Body Model)	4kV
Lead Temperature Soldering	
Wave Solder (through hole styles only).....	10 sec. max, 260°C peak
Reflow (SMD styles only).....	60 sec. max above 183°C, 230°C peak

Block Diagram



Package Options

5 Lead D²PAK
Tab (Gnd)



1. V_{IN}
2. V_{OUT1}
3. Gnd
4. V_{OUT2}
5. ENABLE

Consult factory for 8L and 16L SO, 8L and 16L PDIP, 7L D²PAK and 5L TO-220.



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