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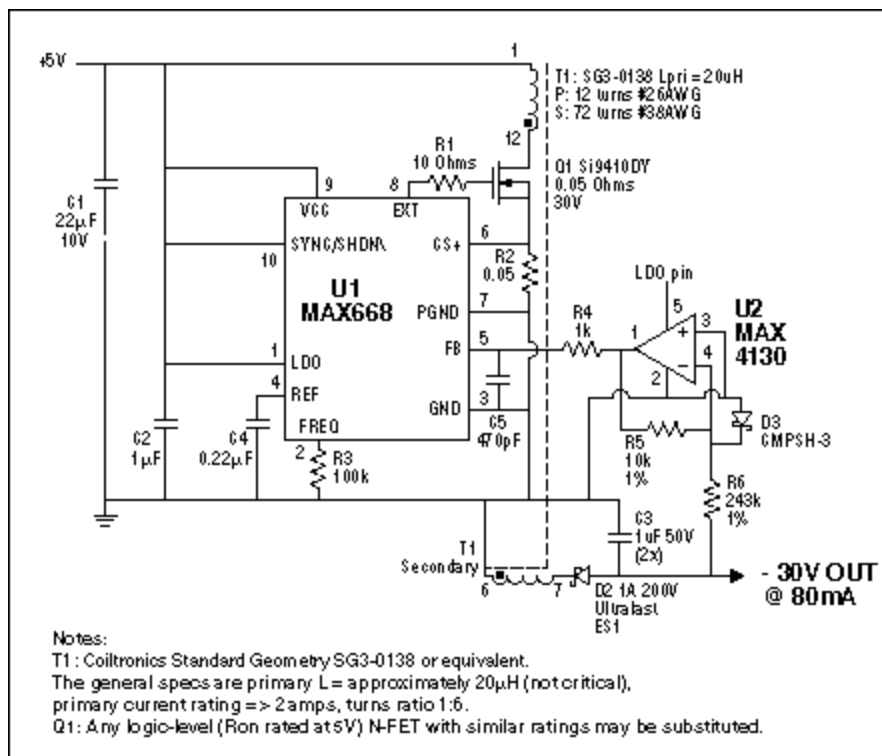
APPLICATION NOTE 433

5V Input Converter Generates -30V at 80mA

Nov 01, 2000

Additional Information:

- [Quick View Data Sheet for the MAX668](#)
- [Quick View Data Sheet for the MAX4130](#)
- [Technical Support: Power](#)



This circuit uses the MAX668 and a transformer (which will need about a one-to-six turns ratio) to make a flyback converter. The op amp inverts the feedback from the negative output voltage.

The circuit above generates -30V at 80mA from a +5V input with 83% efficiency to power SLIC integrated circuits. Based on a MAX668 transformer flyback application, the circuit employs a custom transformer to generate -30V. A switching frequency of 500kHz allows the use of ceramic output capacitors. By adding a third ceramic output capacitor, the output current can be increased to 120mA.

Related Parts

MAX4130	Single/Dual/Quad, Wide-Bandwidth, Low-Power, Single-Supply Rail-to-Rail I/O Op Amps	Free Samples
MAX668	1.8V to 28V Input, PWM Step-Up Controllers in μ MAX	Free Samples

More Information

For Technical Support: <http://www.maximintegrated.com/support>

For Samples: <http://www.maximintegrated.com/samples>

Other Questions and Comments: <http://www.maximintegrated.com/contact>

Application Note 433: <http://www.maximintegrated.com/an433>

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