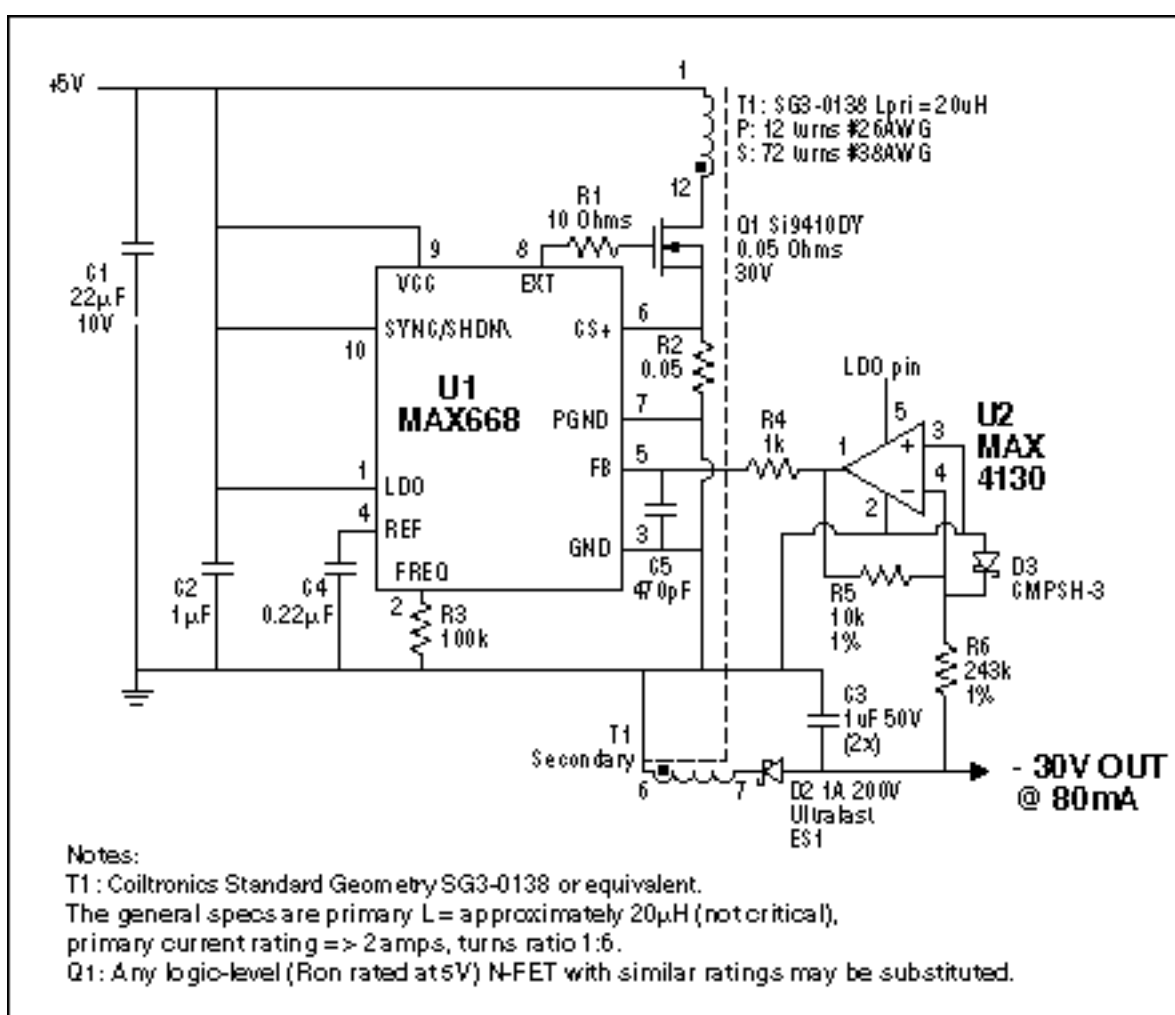


5V Input Converter Generates -30V at 80mA

Additional Information: [Quick View Data Sheet for the MAX668](#)
[Quick View Data Sheet for the MAX4130](#)
Powerhelp@design.maxim.com



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.

668-30wl, November 2000

More Information

MAX4130: [QuickView](#) -- [Full \(PDF\) Data Sheet](#) -- [Free Samples](#)

MAX668: [QuickView](#) -- [Full \(PDF\) Data Sheet](#) -- [Free Samples](#)