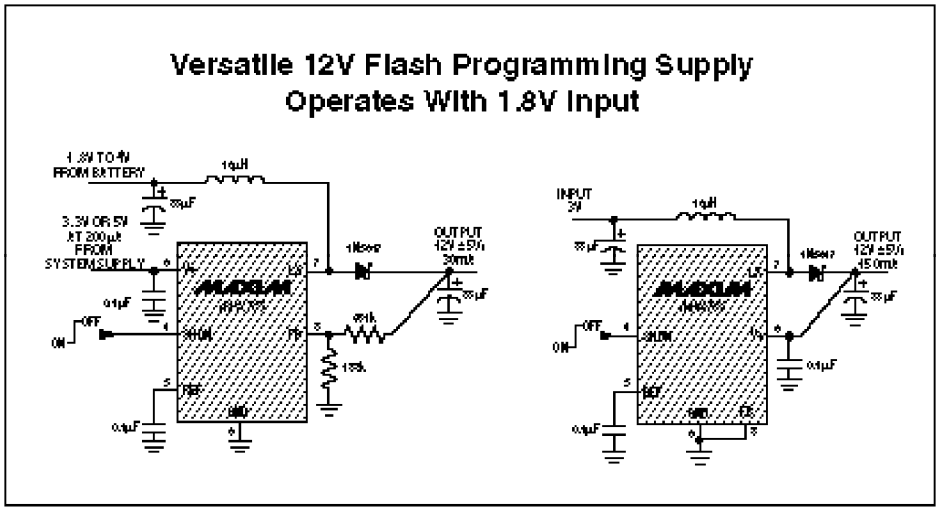
MAX761

- Low 200µA supply current
- Boosts from 1.8V input voltage
- Fits in 0.3in²
- 12V or adjustable output voltage (±5%)
- 1µA logic-controlled shutdown
- LBI/LBO low-battery detector
- 80% - 88% efficiency
- Pre-assembled evaluation kit (MAX761EVKIT-SO)



The MAX761 CMOS DC-DC converter is a versatile step-up supply. It operates from inputs as low as 1.8V, consumes only 200µA of supply current, and fits in 0.3in². Its output voltage is pre-set to 12V ±5%, or can be adjusted from 3V to 16V with just two resistors. Efficiency ranges from 80% to 88% for most applications.

The high efficiency of these devices is the result of low quiescent current and a unique, current-limited, pulse-frequency-modulated (PFM) control scheme. The device combines the benefits of pulse-width-modulated (PWM) converters (high efficiency at heavy loads), with the benefits of PFM converters (low quiescent supply currents).

These 8-pin devices save space, since they have an internal 1A power MOSFET and require as few as four small external components. Their high switching frequency (up to 300KHz) allows the use of small surface-mount components.

Other features include a logic-controlled shutdown mode (1µA supply current) and a built-in LBI/LBO low-battery detector.

The MAX761 is available in 8-pin SOIC and DIP packages in the commercial (0°C to +70°C), extended industrial (-40°C to +85°C), and military (-55°C to +125°C) temperature ranges. A pre-assembled surface-mount evaluation kit (MAX761EVKIT-SO) is available to speed designs.

INTEL FLASH MEMORY SUPPORTED:

28F010, 28F001BX, 28F020, 28F002BC, 28F002BL, 28F002BV, 28F002BX, 28F200BL, 28F200BV, 28F200BX, 28F200CV, 28F004BE, 28F004BL, 28F004BV, 28F004BX, 28F004SC, 28F400BL, 28F400BV, 28F400BX, 28F400CE, 28F400CV, 28F008BE, 28F008BV, 28F008SA, 28F008SC, 28F800BV, 28F800CE, 28F800CV, 28F016SA, 28F016SC, 28F016SV, 28F016XD, 28F016XS, 28F032SA, Series 2 Cards, Series 2+ Cards, Value Series 100 Cards, Series 100 Miniature Cards

AVAILABILITY:

Now

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