

LMC7660

Switched Capacitor Voltage Converter

General Description

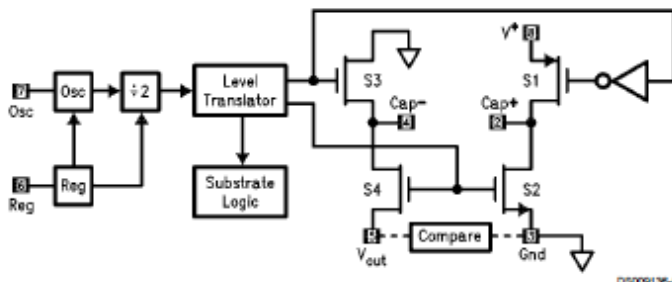
The LMC7660 is a CMOS voltage converter capable of converting a positive voltage in the range of +1.5V to +10V to the corresponding negative voltage of -1.5V to -10V. The LMC7660 is a pin-for-pin replacement for the industry-standard 7660. The converter features: operation over full temperature and voltage range without need for an external diode, low quiescent current, and high power efficiency.

The LMC7660 uses its built-in oscillator to switch 4 power MOS switches and charge two inexpensive electrolytic capacitors.

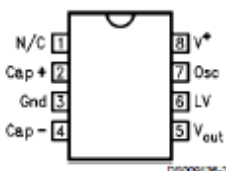
Features

- Operation over full temperature and voltage range without an external diode
- Low supply current, 200 μ A max
- Pin-for-pin replacement for the 7660
- Wide operating range 1.5V to 10V
- 97% Voltage Conversion Efficiency
- 95% Power Conversion Efficiency
- Easy to use, only 2 external components
- Extended temperature range
- Narrow SO-8 Package

Block Diagram



Pin Configuration



Ordering Information

Package	Temperature Range	NSC Drawing
	Industrial -40°C to +85°C	
8-Lead Molded DIP	LMC7660IN	N08E
8-Lead Molded Small Outline	LMC7660IM	M08A