



General Description

The OCP2184 is a 1.5MHz constant frequency, high efficiency, high current, slope compensated current mode PWM step-down DC-DC converter. The device integrates a main switch and a synchronous rectifier for high efficiency without an external Schottky diode. The OCP2184 can operate from a 2.5V to 5.5V input voltage and is ideal for powering portable equipment that runs from a single cell lithium-Ion (Li+) battery. It can supply 2.0A output current and can also run at 100% duty cycle for low dropout operation, extending battery life in portable system. Pulse Skipping Mode operation at light loads provides very low output ripple voltage for noise sensitive applications. The OCP2184 is offered in small profile 10-Lead MSOP and DFN packages, and is available in an adjustable version and fixed output voltage of 1.0V,1.2V,1.5V and 1.8V.

Features

- High Efficiency : Up to 96%
1.5MHz Constant Switching Frequency
2.0A Output Current
2.5V to 5.5V Input Voltage Range
Output Voltages from 0.6V to 5V
Low RDS(ON) Internal Switches: 88mΩ
Available in Fixed Output Voltages of 1.0V,1.2V,1.5V,1.8V and Adjustable Version
Allow use of ceramic capacitors
Current Mode Operation for excellent line and load transient Response
Short-Circuit Protection
Low Dropout Operation:100% Duty Cycle
Low Shutdown Current: Ishutdown<1μA
Small 10-Lead MSOP and DFN Packages

Applications

- Portable Instruments
Digital Cameras
Cellular and Smart Telephones
PDAs
DSP Core Supplies

Pin Configuration

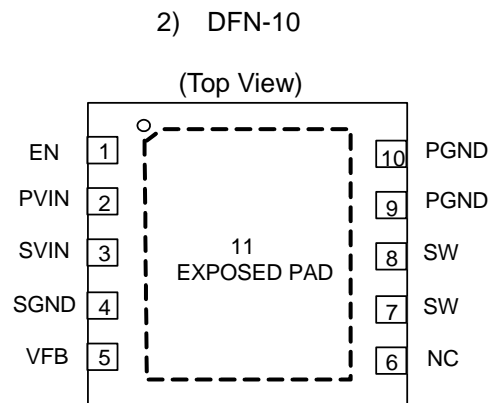
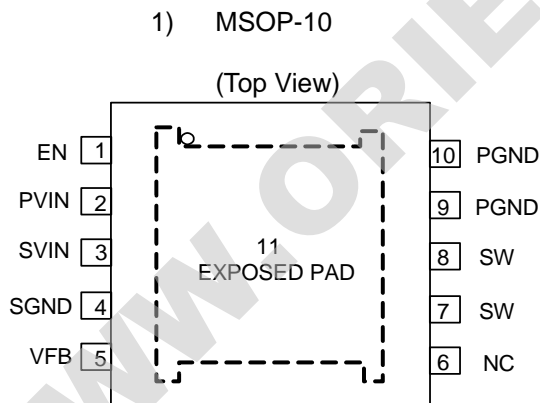
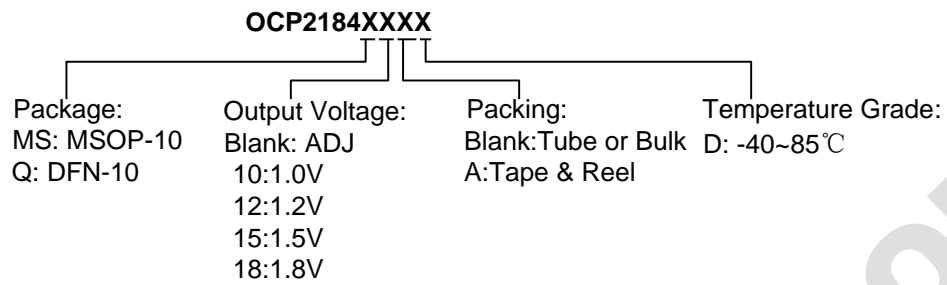


Table with 3 columns: Pin Number, Pin Name, Pin Function. Rows include EN, PVIN, SVIN, SGND, VFB/VOUT, NC, SW, PGND, and EXPOSED PAD.



■ Ordering Information



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