



## PRODUCT OUTLINE

**CM1813ff – 20mA, 5V Boost Converter**  
Adjustable output voltage

### Part Number

■ CM1813ff

### Features

- Inductorless boost voltage regulator (charge pump)
- Maximum output ripple:  $\pm 20\text{mV}$
- Efficiency: (75 %)
- Output load up to 20mA
- Input voltage: 2.5 – 5.5V
- Output voltage: 4.85 – 5.5V
- Output voltage accuracy: 5%
- 3MHz switching frequency
- Core area:  $0.351\text{mm}^2$

### Applications

- Mixed signal SoCs
- Microcontrollers

### Technology

- Silterra 0.18 $\mu\text{m}$  D18V BCD

### Deliverables

- Datasheet/Integration Guide
- HDL Model
- Flat GDSII database/LVS netlist
- Customer Support

### Status

- Silicon proven

### Overview

This macro-cell is an inductorless boost converter, targeted to supply continuous or pulsed loads up to 20mA. It requires external flying and load capacitors. It features internal circuitry to minimize in-rush current.

### Functional Diagram

