



## PRODUCT OUTLINE

### CM1111bg – Ultra Low Power LDO

Low Voltage ( $V_{in} > 1.2V$ ), Low Power ( $3.5\mu W$ )

## Part Number

- CM1111bg

## Features

- Ultra low power LDO
- Low current (typ.  $2.8\mu A$  incl. vref)
- Flexible voltage range: 1.2–3.6V
- Short-circuit protection
- Adjustable output voltage
- Load up to 5mA
- Indicative area:  $0.08mm^2$

## Applications

- Battery powered equipment
- Passive/active RFID tag ICs
- Energy Harvesting ICs
- RTC voltage supply

## Technology

- LFoundry  $0.15\mu m$  LF150 CMOS

## Deliverables

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

## Status

- Silicon Proven

## Overview

This macro-cell is a general purpose low dropout linear regulator core designed for LFoundry  $0.15\mu m$  LF150 CMOS technology STD (Standard) and LP (Low Power) process.

The circuit has an internal voltage reference, short circuit protection and adjustable output voltage (75mV steps through a 5-bit control bus). It is best biased using CM1011bg current reference.

The core is easily retargeted to any other CMOS technology with R-poly devices.

## Functional Diagram

