



## Part Number

- CM6111ae

## Features

- 30V/20mA Driver/Switch
- Switch/current source mode selector
- Programmable current
- Short-circuit protection
- Over-current detection
- Supply voltage: 2.7–3.6V
- Indicative area: 0.41mm<sup>2</sup> (incl. 2 high-voltage and 1 ground pads)

## Applications

- LED driver
- Power switch replacement
- Relay actuator

## Technology

- X-FAB 0.35µm XH035 CMOS

## Deliverables

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

## PRODUCT OUTLINE

**CM6111ae – Power Driver and Switch**  
High Voltage (30V), Load up to 20mA

## Status

- Silicon Proven

## Overview

This macro-cell is a general purpose power driver and switch core designed for X-FAB 0.35µm XH035 CMOS technology.

The circuit includes two cells that can be independently configured as power current source or power driver/switch. Each cell consist of an open drain NMOS transistor capable of delivering 20mA to an output load and of standing up to 30V at its drain. Short-circuit protection and over-current detection features are present.

The core is easily retargeted to any other CMOS technology due to its MOSFET-only architecture.

## Functional Diagram

