



## STEVAL-CLP001V1

### Demonstration board for PMOLED display power supply based on the STOD2540

Data Brief

#### Features

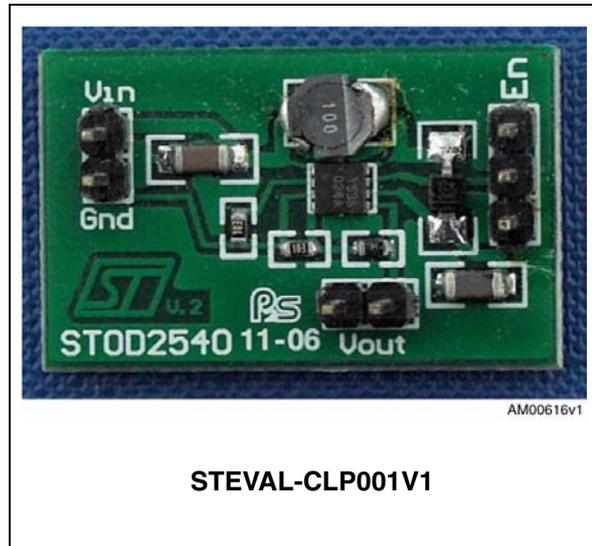
- PFM mode control
- Supply voltage from 3.0 V to 5.5 V
- High efficiency over wide range of load (1 mA to 40 mA)
- Integrated load disconnect switch
- Overvoltage protection with automatic restart
- Soft-start with adjustable peak current limit
- Low shutdown current
- Small external inductor

#### Description

This demonstration board is based on the STOD2540 and is dedicated to passive matrix OLED (PMOLED) displays for portable handsets and provides the pre-charge and biasing voltage of the column matrix driver.

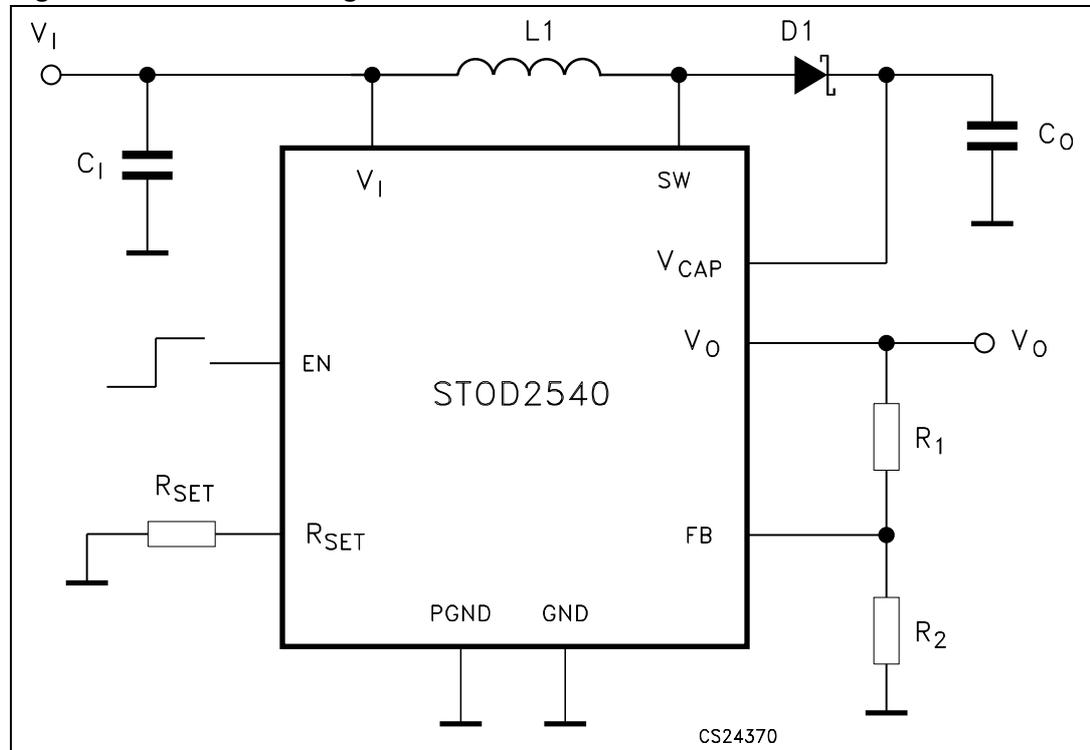
The STOD2540 is a boost converter that operates from 3.0 V to 5.5 V and can provide an output voltage as high as 25 V.

The current capability of the STOD2540 allows the supply of a 1", 1.3" or 1.5" color PMOLED. The maximum output current capability is 40 mA with an output voltage up to 25 V, while the supply voltage is from 3.0 V to 5.5 V.



# 1 Circuit schematic

Figure 1. Schematic diagram



## 2 Revision history

**Table 1. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 21-Aug-2008 | 1        | Initial release. |

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