

## STEVAL-ILL016V1

15 W offline TRIAC dimmable LED driver based on the LD6562AD and TSM1052 (USA market-115 V)

solete

Data Brief

#### **Features**

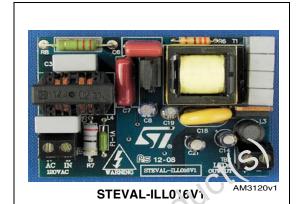
- 120 V line (96 V to 132 Vrms)
- V<sub>out</sub> is set at 40 V max
- I<sub>out</sub> is set at 0.7 A maximum average current
- 0.7 minimum power factor, required for residential use
- 0.9 or greater power factor, required for commercial use
- Capable of FCC Class B conducted EMI
- Emitted acoustic noise less than 24 dBA
- Isolated output, "safe" voltage
- Dimmable with low-cost TRIAC based dimmer, average current down to less than 10% of maximum LED current
- LED lifetime of 25,000 hours (residential) or 35,000 hours (commercial) to 70% light output
- Meets requirements of US DOE ENERGY STAR® program requirements for SSL luminaires - version 1.0

### Description

This demonstration board is a low cost driver for LEDs that is compatible with TR'AC phase-control dimmers. The design gives in umination manufacturers a low-cost, commonly available dimming option for home fixtures. A side benefit is that, when not wired to a dimmer, the unit's power factor is over 0.9.

The design is based on the L6562A transition nione a FC controller driving a single stage PFC-1, back power converter.

For further information contact your local STMicroelectronics sales office.



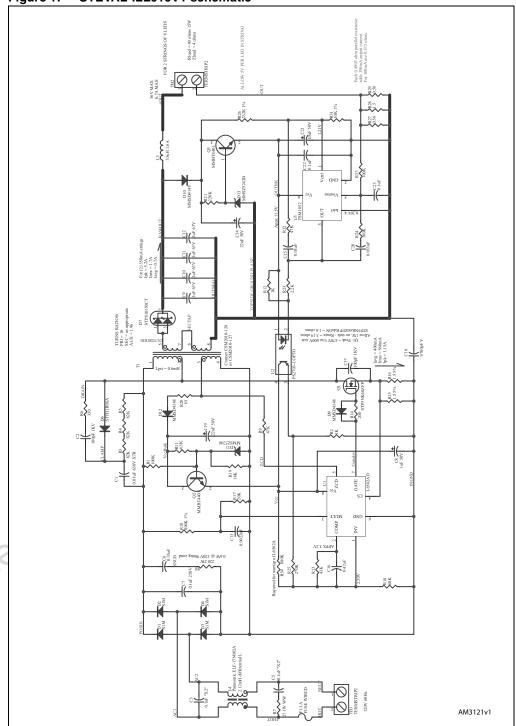
November 2008 Rev 1 1/4

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**Schematic** STEVAL-ILL016V1

#### **Schematic** 1





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STEVAL-ILL016V1 Revision history

# 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
06-Nov-2008	1	Initial release



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