

## STEVAL-ILL014V1

# Evaluation board for the STCS1A constant current controller for high brightness LEDs

Data brief



#### Description

The best way to power LEDs is to control the forward current in order to achieve good matching of light output. LED manufacturers specify the characteristics (such as lumens, beam pattern, color) of their devices at a specified forward current. The STEVAL-ILL014V1 evaluation board demonstrates the operation of the STCS1A constant current LED driver. The STCS1A is capable of controlling the LED current under several application conditions, while also providing useful features that make it suitable for different applications such as advertising signs, automotive interior and exterior lighting, and emergency vehicle warning lights.

#### Features

- Input voltage (VIN): 4.5 V to 40 V
- Less than 0.5 V voltage overhead
- Up to 1.5 A output current
- PWM dimming pin
- Shutdown pin
- LED disconnection diagnostic
- RoHS compliant

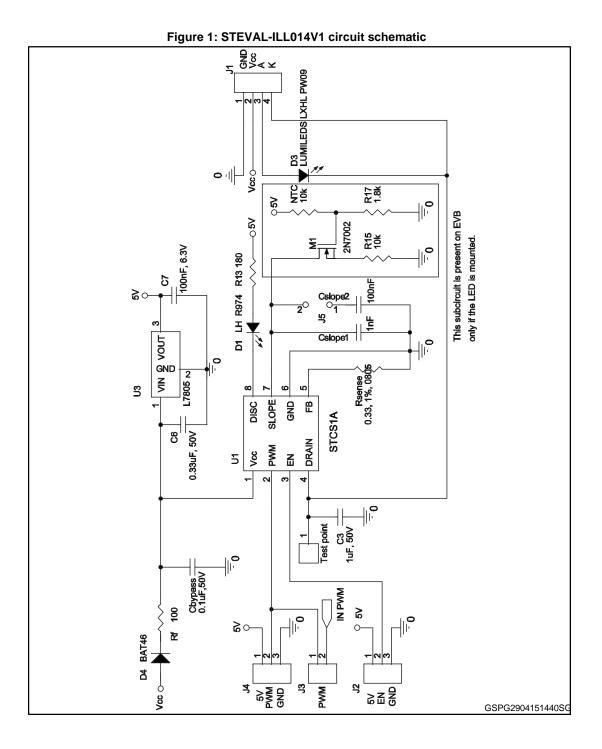
May 2015

DocID014666 Rev 2

1/4

For further information contact your local STMicroelectronics sales office

## 1 Schematic diagram







## 2 Revision history

Table 1: Document revision history

Date	Version	Changes
05-May-2008	1	Initial release.
04-May-2015	2	Updated board photo on the cover page.



#### IMPORTANT NOTICE - PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2015 STMicroelectronics - All rights reserved



## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Lighting Development Tools category:

Click to view products by STMicroelectronics manufacturer:

Other Similar products are found below :

MIC2870YFT EV ADP8860DBCP-EVALZ LM3404MREVAL ADM8843EB-EVALZ TDGL014 ISL97682IRTZEVALZ LM3508TLEV EA6358NH MAX16826EVKIT MAX16839EVKIT+ TPS92315EVM-516 MAX1698EVKIT MAX6956EVKIT+ OM13321,598 DC986A DC909A DC824A STEVAL-LLL006V1 IS31LT3948-GRLS4-EB 104PW03F PIM526 PIM527 MAX6946EVKIT+ MAX20070EVKIT# MAX21610EVKIT# MAX20090BEVKIT# MAX20092EVSYS# PIM498 AP8800EV1 ZXLD1370/1EV4 MAX6964EVKIT MAX25240EVKIT# MAX25500TEVKITC# MAX77961BEVKIT06# 1216.1013 TPS61176EVM-566 TPS61197EVM TPS92001EVM-628 1270 1271.2004 1272.1030 1273.1010 1278.1010 1279.1002 1279.1001 1282.1000 1293.1900 1293.1800 1293.1700 1293.1500