

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

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.

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