

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

STEVAL-ILL009V3

For any questions, you can email us directly: sales@integrated-circuit.com





STEVAL-ILL009V3

OSRAM OSTAR® projection LED board

Data Brief

Features

- Outstanding brightness and luminance due to pure surface emission and low Rth prepared for additional optics
- Dominant wavelength: 617 nm amber (red)
- Dominant wavelength Color 2: 525 nm true green
- Dominant wavelength color 3: 464 nm blue
- Viewing angle at 50 % IV : 120 ° (lambertian emitter)
- Light emitting surface: (typ.) 2.1 x 2.1 mm²
- Technology: InGaAlP thinfilm amber (red)
- Technology color 2: ThinGaN true green
- Technology color 3: ThinGaN blue
- Luminance: 18*106 cd/m² amber (red)
- Luminance color 2: 14*106 cd/m² true green
- Luminance color 3: 3.5*106 cd/m² blue
- Efficacy color 2: 86.0 lm/W true green
- Efficacy color 3: 17.0 lm/W blue
- ESD-withstand voltage: up to 2 kV acc. to JESD22-A114-B



STEVAL-ILL009V3

Description

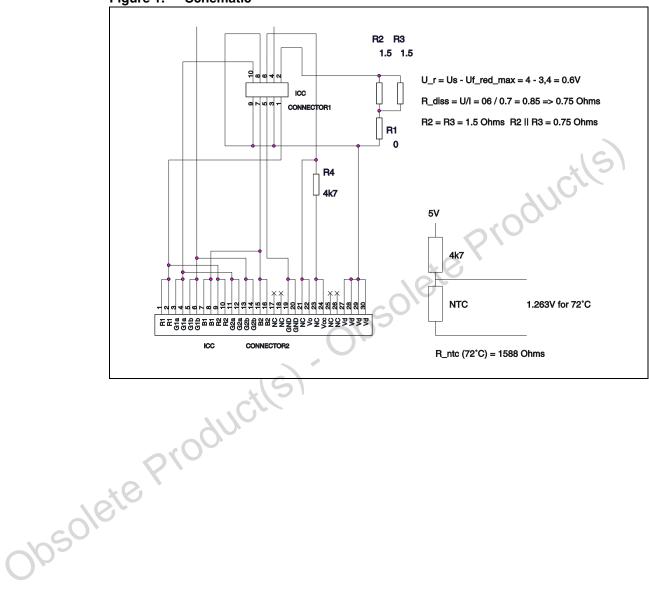
This board should be connected through the 30-pin connector to the STEVAL-ILL009V1 control board to be able to show the light effect with the board. The OSTAR projection module, used as light source, has a maximum forward current of 700 mA. The NTC resistor is directly assembled on the OSTAR module. As the power of the module is above 10 W, the heatsink is used to keep the temperature in range. The biggest advantage of the OSTAR module is that red, green and blue LEDs are in the same package, very closely assembled and therefore the color effect is better than with three separate LEDs.



Board schematic STEVAL-ILL009V3

1 Board schematic

Figure 1. Schematic







STEVAL-ILL009V3 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
20-Nov-2007	1	Initial release



Distributor of STMicroelectronics: Excellent Integrated System Limited Datasheet of STEVAL-ILL009V3 - BOARD EVAL MOD OSTAR PROJECTION Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

STEVAL-ILL009V3

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2007 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com

