STR-NCL30160-1A-LED-GEVB: Strata Enabled NCL30160 1A LED Driver

The STR-NCL30160-1A-LED-GEVB provides an evaluation board for the NCL30160 1A LED driver using Strata Developer Studio. The NCL30160 is an NFET hysteretic step-down, constant-current driver for high power LEDs that offers fast load transient response, PWM LED dimming, resistor-programmable LED current, shorted LED protection, under-voltage lockout and thermal shutdown in an SOIC-8 package. This evaluation board is used with Strata to control the NCL30160 and monitor telemetry such as input voltage/current, LED voltage/current, and temperature. See the Strata webpage at www.onsemi.com/strata for more details!
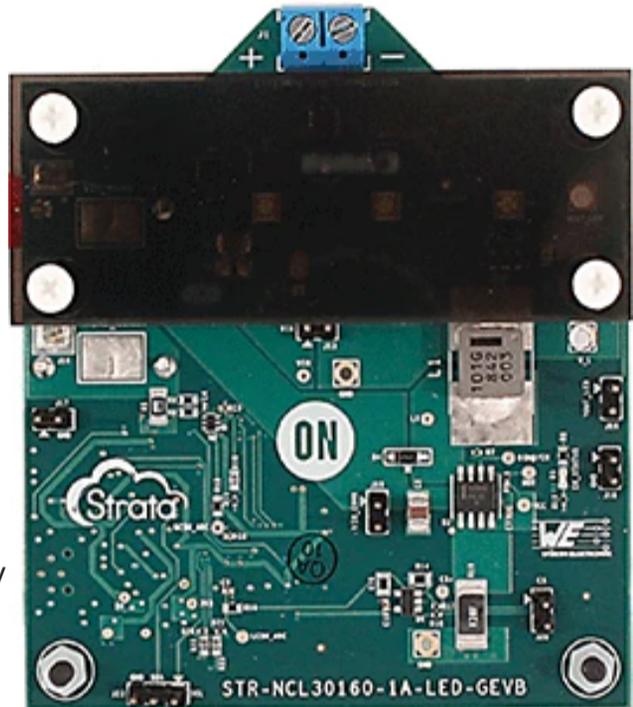
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Features and Applications

Features

- Integrated 1A/50mΩ MOSFET
- VIN Range 6.3V to 40V
- Shorted LED Shutdown Protection
- Up to 1.4 MHz Switching Frequency
- No Control Loop Compensation Required
- Adjustable LED Current
- Single Pin Brightness and Enable/Disable Control Using PWM
- Supports All−Ceramic Output Capacitors and Capacitor−less Output
- Thermal Shutdown Protection
- Capable of 100% Duty Cycle Operation
- Pb−Free Device

Applications

- LED Driver
- Constant Current Source
- General Illumination
- Industrial Lighting

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Technical Documents

Type	Document Title	Document ID/Size	Rev
Software	Strata Setup Software for Microsoft Windows	Strata setup Windows - 82652 KB 🔒	3.0.1.1
Eval Board: Schematic	STR-NCL30160-1A-LED-GEVB Schematic	STR-NCL30160-1A-LED-GEVB_SCHEMATIC - 1193 KB	0
Eval Board: Gerber	STR-NCL30160-1A-LED-GEVB Gerber Layout Files (Zip Format)	STR-NCL30160-1A-LED-GEVB_GERBER - 4105 KB	0
Eval Board: Test Procedure	STR-NCL30160-1A-LED-GEVB Test Procedure	STR-NCL30160-1A-LED-GEVB_TEST_PROCEDURE - 452 KB	0
Eval Board: BOM	STR-NCL30160-1A-LED-GEVB Bill of Materials (ROHS Compliant)	STR-NCL30160-1A-LED-GEVB_BOM_ROHS - 71 KB	0
Video	1A LED Driver EVB	Strata	WVD17395/D	
Eval Board: Manual	STR-NCL30160-1A-LED-GEVB User Guide	STR-NCL30160-1A-LED-GEVB_user_guide - 996 KB	0

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