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NCP3066SCBSTGEVB:NCP3066 SOIC8 BOOST DB

Evaluation Board Description

The NCP3066 is a monolithic switching regulator designed to deliver constant current for powering high brightness LEDs. The device has a very low feedback voltage of 235 mV (nominal) which is used to regulate the average current of the LED string. In addition, the NCP3066 has a wide input voltage up to 40 V to allow it to operate from 12 Vac or 12 Vdc supply, commonly used for lighting applications as well as unregulated supplies such as rechargeable batteries. The ON/OFF function allows turn the device to low consumption mode or regulate the brightness of LEDs.
Size: 39mm x 32mm x 12mm



Features and Applications

Features

- ? Integrated 1.5 A Switch
- ? Input Voltage Range from 3.0 V to 40 V
- ? Logic Level Shutdown Capability
- ? Low Feedback Voltage of 235 mV
- ? Cycle by Cycle Current Limit
- ? No Control Loop Compensation Required
- ? Frequency of Operation Adjustable up to 250 kHz
- ? Operation With All Ceramic Output Capacitors or No Output Capacitance
- ? Analog and Digital PWM Dimming Capability
- ? Internal Thermal Shutdown with Hysteresis
- ? NCV Prefix for Automotive and Other Applications Requiring Site and Control Changes
- ? These are Pb Free Devices

Evaluation Board Information

| Evaluation Board | Status | Pb - free | Short Description | Parts Used | Action |
|------------------|--------|--------------------|------------------------|-------------|----------------------------|
| NCP3066SCBSTGEVB | Active | <div>Pb-free</div> | NCP3066 SOIC8 BOOST DB | NCP3066DR2G | Contact Local Sales Office |

Technical Documents

| Type | Document Title | Document ID/Size | Rev |
|----------------------------|---|--|-----|
| Eval Board: BOM | NCP3066SCBSTGEVB Bill of Materials ROHS Compliant | NCP3066SCBSTGEVB_BOM_ROHS.PDF - 100.0 KB | 0 |
| Eval Board: Gerber | NCP3066SCBSTGEVB Gerber Layout Files (Zip Format) | NCP3066SCBSTGEVB_GERBER.ZIP - 49.0 KB | 0 |
| Eval Board: Schematic | NCP3066SCBSTGEVB Schematic | NCP3066SCBSTGEVB_SCHEMATIC.PDF - 135.0 KB | 0 |
| Eval Board: Test Procedure | NCP3066SCBSTGEVB Test Procedure | NCP3066SCBSTGEVB_TEST_PROCEDURE.PDF - 165.0 KB | 0 |

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