



NCV7684I2CV1GEVB: Twelve Channels LED Linear Current Driver with I2C Interface with MCU Board

The NCV7684I2CV1GEVB evaluation board demonstrates the Rear Combination Lamp Application with the NCV7684 LED linear current driver. On-board buck converter creates constant voltage of 7.0 V on the top of the LED's to have lower power dissipation on the device itself. The board contains up to three LEDs in a series for each twelve channels. The amber color of the LED's can emulate TAIL/STOP functionality. The Evaluation board has an expansion connector for optional connection of the external MCU board, which can control the driver via I2C interface. NCV7684 has several kinds of the fault detection's, fault detection can be emulated by shorting or opening on-board jumpers. The indication LED's can inform users about diagnostic and the status of the supplies.



Features and Applications

Features

- Over-temperature Current Fold-back Protection
- 3 x 12 Amber LEDs
- Wide Range of Supply Voltage: 8 to 18 V
- Passive Cooling

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCV7684I2CV1GEVB	Active	Pb-free	Twelve Channels LED Linear Current Driver with I2C Interface with MCU Board	NCP431ACSNT1G , NCV4276CDT50RKG , NCV7684DQR2G , NRVBA340T3G , NVTFS5116PLTAG , SZMM3Z3V3T1G , SZMM3Z4V7T1G	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCV7684I2CV1GEVB Bill of Materials	NCV7684I2CV1GEVB_BOM_ROHS - 157 KB	0
Eval Board: Test Procedure	NCV7684I2CV1GEVB Test Procedure	NCV7684I2CV1GEVB_TEST_PROCEDURE - 497 KB	0
Eval Board: Gerber	NCV7684I2CV1GEVB Gerber Layout Files (Zip Format)	NCV7684I2CV1GEVB_GERBER - 205 KB	0
Software	NCV7684I2CV1GEVB Source Code	NCV7684I2CV1GEVB_SOURCE_CODE - 6194 KB	0
Software	NCV7684I2CV1GEVB Control Program	NCV7684I2CV1GEVB_CONTROL_PROGRAM - 4689 KB	0
Eval Board: Schematic	NCV7684I2CV1GEVB Schematic	NCV7684I2CV1GEVB_SCHEMATIC - 612 KB	0

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