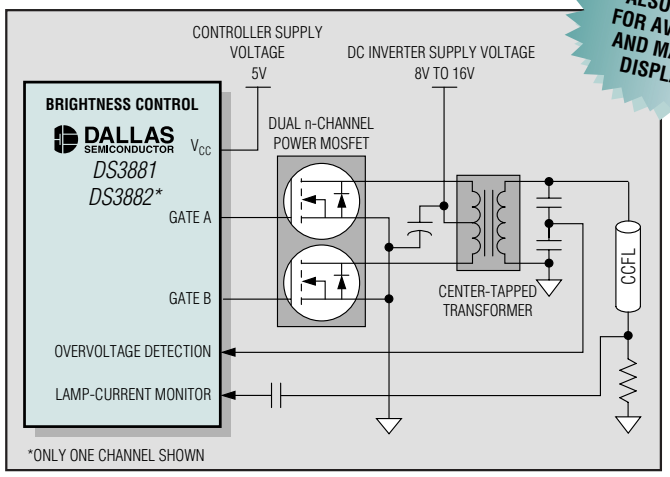
NEW AUTOMOTIVE CCFL CONTROLLERS REDUCE EMI AND PROVIDE 300:1 DIMMING

Lowest Component Count, Feature-Rich, Automotive Inverter Solutions for LCDs and Control-Panel Backlights

LAMP-CURRENT OVERDRIVE MODE FOR QUICK STARTUP IN COLD CONDITIONS



ALSO IDEAL FOR AVIATION AND MARINE DISPLAYS

SINGLE-CHANNEL

DS3881

DUAL-CHANNEL

DS3882

Programmable Flexibility

- I²C Serial Port and On-Board Nonvolatile Memory Allow Device Customization

EMI-Reduction Features

- Optional Spread-Spectrum Function for Lamp Clock
- Dynamically Step Lamp Frequency Up or Down to Move EMI Spurs from Radio Band

Wide Dimming Range

- Up to 300:1 Dimming Range
- Analog and I²C‡ Digital Dimming-Control Modes

Highly Integrated Solution

- High-Density CCFL Controllers for One- and Two-Lamp Automotive LCDs and Control-Panel Backlights
- Wide -40°C to +105°C Temperature Range

Comprehensive Inverter Control

- Independent On-Board Oscillators (Accurate to ±5%) for Lamp (40kHz to 80kHz) and Dimming (22.5Hz to 440Hz) Frequencies
- Per-Channel Lamp Fault Monitoring for Open, Overcurrent, Failure-to-Strike, and Overvoltage Conditions

‡Purchase of I²C components from Maxim Integrated Products, Inc., or one of its sublicensed Associated Companies, conveys a license under the Philips I²C Patent Rights to use these components in an I²C system, provided that the system conforms to the I²C Standard Specification defined by Philips.

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