Led Driver IC

Description

The E522.59 is a multi-channel PWM driver for e.g. light application. It provides 16 current sinks with integrated 10bit PWM generator for each channel. Each of the drivers can digitally be configured to drive up to 100mA with a selectable... read more

Features

- Differential bus interface with UART communication up to 1MBit/s for dynamic LED control
- Device and LED supply voltage range from 5V up to 40V
- 16 PWM generators with 10bit resolution
- 16 programmable LED drivers up to 100mA
- LED driver current selection step size of 100uA
- 2 prioritized PWMIN interface pins
- PWMIN interface with fallback data
- Direct PWM input
- 10bit ADC for LED open, short and system diagnosis
- Single lamp mode behaviour option
- Advanced device power management by channel bundling option
- Automatic supply and temperature dependent LED current derating
- LED channel individual bin class brightness correction
- Optional external LED bin class resistor evaluation
- Optional CAN Transceiver mode for central/zonal architectures
- Developed according to ISO 26262 supporting applications up to ASIL B
- Qualified according to AEC-Q100 and AEC-Q006 grade 1

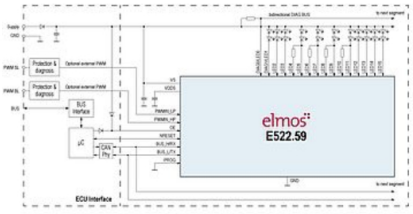
Documentation

On Request

File	Description
E522.59 | Data Sheet	

Request files

Application Diagram



Applications

- Automotive interior and exterior light systems
- General LED Applications
- High speed LED light animations

Ordering Information

Samples

Part No.	Temp Range	Package	Order No.
E522.59	-40°C to +125°C	QFN32L6 - SLP	E52259A77B

Boards

*) Power Zeroing is an elmos patent filed: US10136496B2 (2014-01-31) and EP3039945B1 (2014-08-27)

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