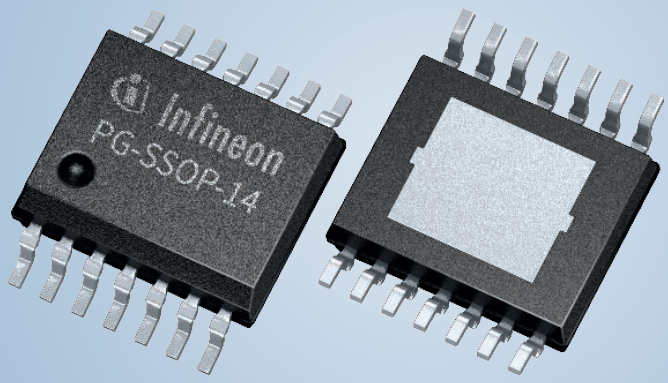


Product Brief

LITIX™ Basic

Scalable Linear Current Sources Family for Automotive LED Applications

LITIX™ Basic are optimized for the control of low to medium power LEDs in automotive applications. The whole family of linear constant current sources offers footprint compatibility ranging from 1 to 3 output channels with typ. 60–180mA and enables stable and reliable LED brightness by precise current control.

The integration of features also increases the system reliability by component reduction on board level, ensures system protection (e.g. against ISO pulses) and can help to optimize system efficacy.

In addition the automotive optimized scalable feature set of the LITIX™ Basic simplify lighting system solutions e.g. by integrating protection and diagnostic features. And it enables the reuse of core design to reduce development effort and time.

Applications

- Automotive exterior and interior LED lighting
- Low to medium power LED applications
- E.g. position, turn, tail, stop, CHMSL, RCL, reverse, fog, dome

Key Features

- 1 to 3 output channels; typ. 60 to 180mA
- Supply voltage 5.5–40V
- Integrated protection and diagnostic feature
- Stable and reliable LED brightness
- PWM via external PWM signal and optional via integrated PWM engine

Key Benefits

- Scalable feature set for dimming and diagnosis
- Pin-to-pin footprint compatibility
- Reduced system complexity
- Reduced effort for design adaptations
- Increased lifetime for LED and driver by integrated protection

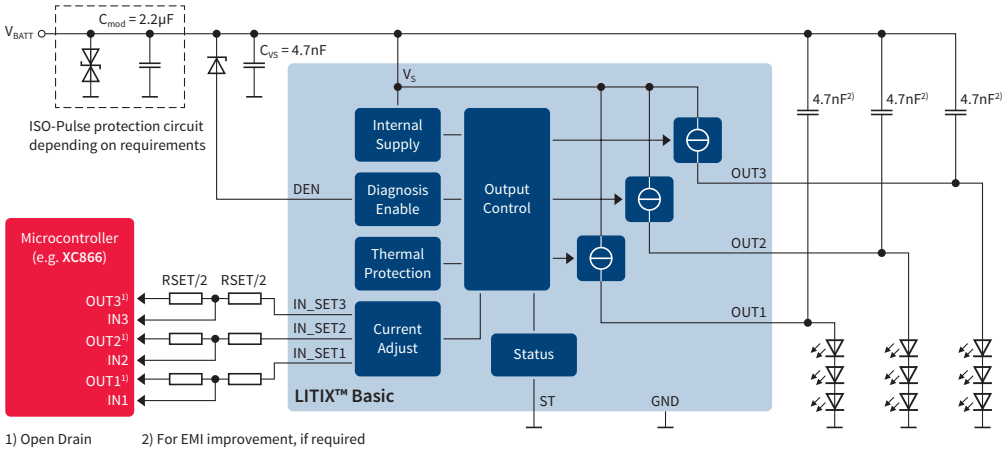
RoHS

AEC Qualified

LITIX™ Basic

Scalable Linear Current Sources Family for Automotive LED Applications

TLD2314EL Application Diagram



1) Open Drain 2) For EMI improvement, if required

- V_S: Supply pin
- DEN: Diagnosis Enable input pin
- IN_SET: Input and set current pin
- OUT: Output pin
- ST: Status pin (optional)
- GND: Ground

Product Summary

Type	Description	Ordering Code
TLD1120EL	1 IN, 1 OUT	SP000809162
TLD1121EL	1 IN, 1 OUT + OL & SC	SP000809166
TLD1124EL	1 IN, 1 OUT + OL & SC + DEN	SP001092708
TLD1125EL	1 IN, 1 OUT + PWMI + OL & SC	SP000809220
TLD1310EL	1 IN, 3 OUT	SP000809202
TLD1311EL	1 IN, 3 OUT + N-1	SP000809204
TLD1312EL	1 IN, 3 OUT + PWMI	SP000809206
TLD1313EL	1 IN, 3 OUT + OL & SC	SP000809208
TLD1314EL	1 IN, 3 OUT + OL & SC + DEN	SP001092706
TLD1315EL	1 IN, 3 OUT + PWMI & N-1	SP000809210
TLD1326EL	1 IN, 3 OUT + Matrix function + PWMI & N-1	SP000809212
TLD2310EL	3 IN, 3 OUT	SP000809214
TLD2311EL	3 IN, 3 OUT + OL & SC	SP000809216
TLD2314EL	3 IN, 3 OUT + OL & SC + DEN	SP001092710
TLD2326EL	3 IN, 3 OUT + Matrix function + OL & SC	SP000809218

OL = Open Load Diagnosis
SC = Short Circuit Diagnosis
N-1 = Complete device deactivation during Open Load
PWMI = PWM Input
DEN = Diagnosis Enable Input
Matrix = Feedback to DC/DC converter to optimize efficiency

Published by
Infineon Technologies AG
85579 Neubiberg, Germany

Visit us:
www.infineon.com

Order Number: B127-I0035-V2-7600-EU-EC-P
Date: 02 / 2015