

# Automotive 12 channel LED driver with diagnostics

# Constant Current LED Driver

BD18377EFV-M

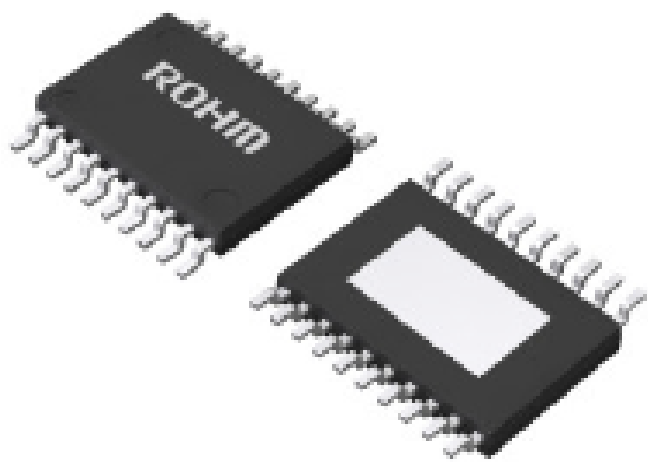


## Characteristics

- Input voltage range: 3.0V to 5.5V
- Output voltage range: 0.5V to 10V
- Output Current range/channel: 15mA to 50mA
- Output current accuracy at 30mA: 3.5% (typ.)
- Min PWM ON Time: 5µs
- Max. circuit current: 5mA
- Max. clock frequency: 1250kHz
- Operating temperature range: -40°C to 105°C

## Features

- Constant current output up to 50mA per output channel.
- 4-line Serial Control+ Enable Signal.
- PWM dimming 0.1-100% global.
- 6 Bit LED brightness adjustment on each channel.
- Diagnostic output on LED OPEN and SHORT for each channel.
- Over Temperature Protection and thermal feedback.
- Read-back of all register settings.
- Output may be connected in parallel to achieve more than 50mA into the load.
- Slew limited switching reduces conducted and radiated Noise (EMI).
- Daisy chain compatible with BD18377EFV-M and/or BD8377EFV-M.
- AEC-Q100 qualified.



## Block Diagrams

