## **Enables Flexible Control of Lighting Patterns from the MCU**





# 24ch LED Lamp Drivers for Automotive Animation Lighting



## BD18330EFV-M, BD18331EFV-M

#### Features -

- 1ch buck DC/DC controller + 24ch linear LED driver with built-in FET
- Operating voltage range : 4.5V to 40V
- Max output current : 60mA/ch 125mA/ch

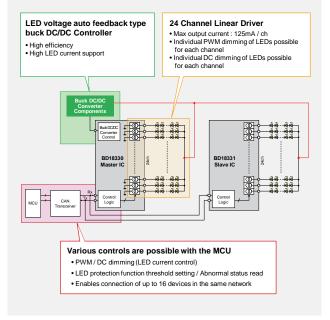
(when using EXTISET)

- Spread spectrum function
- UART Interface (Max 1Mbps)
  - Enables connection of up to 16 devices
  - DC / PWM dimming settings
  - · LED short detection threshold voltage setting
  - Output ON delay time setting for each channel
  - Enable function supports a variety of protection operations / Abnormal status read
  - Communication error flag output

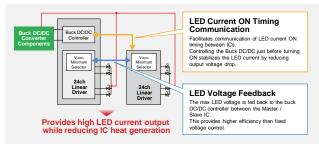
## **Applications**

- Animation lamps (front/rear)
- Sequential turn signals (front/rear)

#### **Application Circuit Diagram**



#### LED Voltage Auto Feedback type Buck DC/DC Controller



#### **Application Example (Animation Lighting)**

Currently, the automotive lamp market is seeing increased demand for animation lighting, in which LED lamp arrays are lit up in different patterns

Rear Lamp Lighting Pattern ②

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