



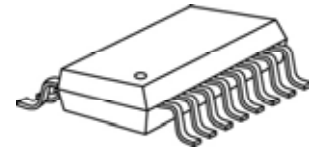
8-Channel All-Ways-On™ Constant Current LED Driver

Features

- Maximum 50V output sustaining voltage
- 8 constant-current output channels
- Adjustable 5 - 60mA output current per channel through an external resistor
- Constant output current invariant to load voltage change
- Excellent output current accuracy:
between channels: $\lt; \pm 3\% \text{ (max.)}$, and
between ICs: $\lt; \pm 6\% \text{ (max.)}$
- Open-circuit detection mode to detect LED errors
- Integrated voltage regulator for 8 - 40V supply voltage
- Voltage feedback for DC/DC controller
- Package Type: "Pb-free & Green" package with thermal pad

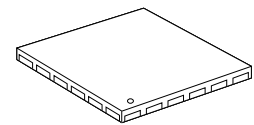
Current Accuracy		Conditions
Between Channels	Between ICs	
$\lt; \pm 3\%$	$\lt; \pm 6\%$	$I_{OUT} = 5 \sim 60\text{mA}$

Thin Shrink SOP



GTS: TSSOP16-173-0.65

Quad Flat No-Lead



GFN: QFN24-4*4-0.5

Product Description

MBI1828 is an instant On/Off LED driver for lighting applications and exploits PrecisionDrive™ technology to enhance its output characteristics. At MBI1828 output stage, 8 regulated current ports are designed to provide uniform and constant current sinks for driving LEDs within a large range of V_F variations.

MBI1828 provides users 8-channel constant current ports to match LEDs with equal current. Users may adjust the output current from 5mA to 60mA through an external resistor, R_{ext} , which gives users flexibility in controlling the light intensity of LEDs. In addition, users can precisely adjust LED brightness from 0% to 100% via output enable (OE) with Pulse Width Modulation.

Additionally, to ensure the system reliability, MBI1828 is built with thermal pad. The thermal pad enhances the power dissipation. As a result, a large amount of current can be handled safely in one package.

Applications

- Automotive lighting
- Channel letter
- Decorative LED lighting