

4-Channel All-Ways-On[™] Constant Current LED Driver

Features

- Maximum 50V output sustaining voltage
- 4 constant-current output channels
- Constant output current invariant to load voltage change
- Excellent output current accuracy:
 between channels: <±3% (max.), and
 between ICs: <±6% (max.)
- Output current adjusted through an external resistor
- Constant output current range per channel: 10 120 mA
- Integrated voltage regulator for 8 40 V supply voltage
- Package Type: "Pb-free & Green" package with thermal pad

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JA	JAM
	Mag
GD: SC	DP8-150-1.27

Current Accuracy		Conditions	
Between Channels	Between ICs	Conditions	
< ±3%	< ±6%	I _{OUT} = 10 ~ 120 mA	

Product Description

MBI1824 is an instant On/Off LED driver for lighting applications and exploits PrecisionDrive[™] technology to enhance its output characteristics. At MBI1824 output stage, 4 regulated current ports are designed to provide uniform and constant current sinks for driving LEDs within a large range of V_F variations.

MBI1824 provides users 4-channel constant current ports to match LEDs with equal current. Users may adjust the output current from 10mA to 120mA 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, MBI1824 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