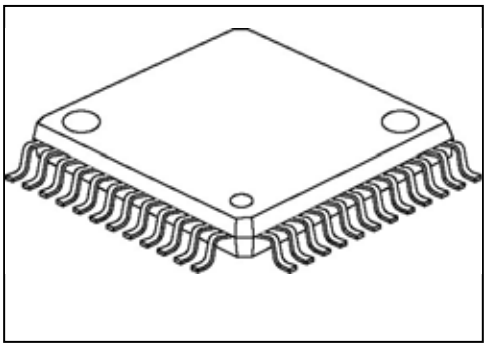
8-channel x 3 Constant Current LED Sink Driver

Features

- 24 constant-current output channels
- Constant output current invariant to load voltage change
- 256-step run-time programmable output current gain control
- Output current adjusted through three external resistors
- Constant output current range: 10 -60 mA
- Excellent output current accuracy:
  between channels: < ±5% (max.), and
  between ICs: < ±6% (max.)
- 25MHz clock frequency
- Schmitt trigger input
- 3.3V / 5V supply voltage
- Optional for “Pb-free & Green” Package

Low Profile Quad Flat Pack (LQFP)



GLQ: 48L (7 x 7 mm^2)

Current Accuracy		Conditions
Between Channels	Between ICs	
< ±5%	< ±6%	I_{OUT} = 10 ~ 60 mA, V_{DS} = 0.8V

Product Description

MBI5368 is designed for fine pitch LED display applications and exploits PrecisionDrive™ technology to provide uniform and constant current sinks for driving LEDs within a large range of V_F variations. In one package, MBI5368 incorporate three 8-channel drivers that output current can be adjusted through three external resistors and moreover be programmable to 256 gain steps for LED white balance.

MBI5368 provides users with great flexibility and small package while using surface mounted RGB LEDs to display precisely video color. Users may adjust the output current from 10 mA to 60 mA through separately external resistor R_{ext} and 8-bit current gain control, which gives users flexibility in the color correction of LEDs.

Applications

Indoor/outdoor LED video display

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