

LED Driver 6 Segment 3000uA Supply Current 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP8

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC3203 is a hysteretic, step-down, constant-current, High-Brightness LED (HB LED) driver. It provides an ideal solution for interior/exterior lighting, architectural and ambient lighting, LED bulbs, and other general illumination applications. The MIC3203 is well suited for lighting applications requiring a wide-input voltage range. The hysteretic control gives good supply rejection and fast response during load transients and PWM dimming. The high-side current sensing and on-chip current-sense amplifier delivers LED current with $\pm 5\%$ accuracy. An external high-side current-sense resistor is used to set the output current. The MIC3203 offers a dedicated PWM input (DIM) which enables a wide range of pulsed dimming. A high-frequency switching operation up to 1.5MHz allows the use of smaller external components minimizing space and cost. The MIC3203 offers frequency dither feature for EMI control. The MIC3203 operates over a junction temperature from -40°C to $+125^{\circ}\text{C}$ and is available in an 8-pin SOIC package. A dither disabled version MIC3203-1 is also available in the same package as the MIC3203.

Key Features

4.5V to 42V input voltage range

High efficiency (>90%)

MIC3203: Dither enabled for low EMI

MIC3203-1: Dither disabled

High-side current sense

Dedicated dimming control input

Hysteretic control (no compensation required)

Up to 1.5MHz switching frequency

Adjustable constant LED current

Over-temperature protection

Recommended For You

MIC4833YML-TR

Microchip Technology, Inc
QFN

MIC4802YME

Microchip Technology, Inc
SOP8

MIC4801YM

Microchip Technology, Inc
SOP8

MIC2842AYMI-TR

Microchip Technology, Inc
10-TMLF2x2

MIC3202-1YME

Microchip Technology, Inc
SOIC

SY88932LMI

Microchip Technology, Inc
QFN-16

MIC4834YMM-TR

Microchip Technology, Inc
10-TFSOP

MIC3232YMM

Microchip Technology, Inc
MSOP-10

MIC2292-15YML-TR

Microchip Technology, Inc
VDFN-8

MIC4834YML-TR

Microchip Technology, Inc
VDFN3x3

MIC3203-1YM

Microchip Technology, Inc
SOP-8

MIC3223YTSE

Microchip Technology, Inc
TSSOP-16

MIC4826YMM

Microchip Technology, Inc
MSOP-8

MIC4830YML

Microchip Technology, Inc
QFN

SY88912LMI

Microchip Technology, Inc
MLF-16