LED Driver 8 Segment 22000uA Supply Current Automotive 16-Pin TSSOP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	TSSOP16
Product Type:	Optoelectronics
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active

TLC5917IPWR Image

Images are for reference only

Inquiry

General Description

The TLC591x Constant-Current LED Sink Drivers are designed to work alone or cascaded. Since each output is independently controlled, they can be programmed to be on or off by the user. The high LED voltage (VLED) allows for the use of a single LED per output or multiple LEDs on a single string. With independently controlled outputs supplied with constant current, the LEDs can be combined in parallel to create higher currents on a single string. The constant sink current for all channels is set through a single external resistor. This allows different LED drivers in the same application to sink various currents which provides optional implementation of multi-color LEDs. An additional advantage of the independent outputs is the ability to leave unused channels floating. The flexibility of the TLC591x LED drivers is ideal for applications such as (but not limited to): 7-segment displays, scrolling single color displays, gaming machines, white goods, video billboards and video panels.

Key Features

Eight Constant-Current Output Channels

Output Current Adjusted Through Single External Resistor

Constant Output Current Range: 3-mA to 120-mA per Channel

Constant Output Current Invariant to Load Voltage Change

Open Load, Short Load and Overtemperature Detection

256-Step Programmable Global Current Gain

Excellent Output Current Accuracy:

Between Channels: < ±3% (Maximum)

Between ICs: < ±6% (Maximum)

Fast Response of Output Current

30-MHz Clock Frequency

Schmitt-Trigger Input

3.3-V or 5-V Supply Voltage

Maximum LED Voltage 20-V

Thermal Shutdown for Overtemperature Protection

APPLICATIONS

General LED Lighting Applications
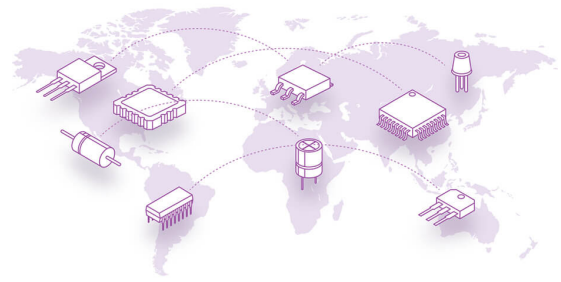
LED Display Systems

LED Signage

Automotive LED Lighting

White Goods

Gaming Machines/Entertainment

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Recommended For You

TLC5955DCAR

Texas Instruments, Inc

HTSSOP56

TLC5917IN

Texas Instruments, Inc

PDIP-16

TLC5916QDRQ1

Texas Instruments, Inc

SOP-16

TLC59116ITPWRQ1

Texas Instruments, Inc

TSSOP28

TLC6C5712QPWPRQ1

Texas Instruments, Inc

HTSSOP-28

TLC6C5748QDCARQ1

Texas Instruments, Inc

HTSSOP-56

TL4242TDRJRQ1

Texas Instruments, Inc

SON8

TLC5916IPW

Texas Instruments, Inc

TSSOP16

TLC5916IDR

Texas Instruments, Inc

SOIC16

TLC5916IPWR

Texas Instruments, Inc

TSSOP16

TLC6C598QPWRQ1

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TSSOP16

TLC6C598CQDRQ1

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SOP16

TLC5945PWP

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HTSSOP

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