

LED Driver 1500uA Supply Current 8-Pin SOIC N T/R

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP8

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

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General Description

The HV9910C is an open loop, current mode, control LED driver IC. The HV9910C can be programmed to operate in either a constant frequency or constant off-time mode. It includes a 15 – 450V linear regulator which allows it to work from a wide range of input voltages without the need for an external low voltage supply. HV9910C includes a TTL compatible PWM dimming input that can accept an external control signal with a duty ratio of 0 – 100% and a frequency of up to a few kilohertz. It also includes a 0 – 250mV linear dimming input which can be used for linear dimming of the LED current. As opposed to the HV9910B, the HV9910C is equipped with built-in thermal-shutdown protection. The HV9910C is ideally suited for buck LED drivers. Since the HV9910C operates in open loop current mode control, the controller achieves good output current regulation without the need for any loop compensation. Also, being an open loop controller, PWM dimming response is limited only by the rate of rise of the inductor current, enabling a very fast rise and fall times of the LED current. The HV9910C requires only three external components (apart from the power stage) to produce a controlled LED current making it an ideal solution for low cost LED drivers.

Key Features

Switch mode controller for single switch LED drivers

Enhanced drop-in replacement to the HV9910B

Open loop peak current controller

Internal 15 to 450V linear regulator

Constant frequency or constant off-time operation

Linear and PWM dimming capability

Requires few external components for operation

Over-temperature protection

Recommended For You

HV7224PG

Microchip Technology, Inc
QFP

HV9921N3-G

Microchip Technology, Inc
TO-92

HV816K6-G

Microchip Technology, Inc
QFN

HV857MG-G

Microchip Technology, Inc
MSOP8

HV9923N8-G

Microchip Technology, Inc
SOT89

HV5812P

Microchip Technology, Inc
PLCC28

HV9925SG-G

Microchip Technology, Inc
SOIC

HV9922N3-G

Microchip Technology, Inc
TO-92

HV823LG-G

Microchip Technology, Inc
SOP8

HV9919BK7-G

Microchip Technology, Inc
8WDFN3x3x0.

HV5812WG-G

Microchip Technology, Inc
28SOIC

HV9918K7-G

Microchip Technology, Inc
WDFN-8

HV9922N8-G

Microchip Technology, Inc
SOT89

HV6810WG

Microchip Technology, Inc
SOP20

HV857LMG-G

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MSOP8