

EL Lamp Driver 5V 8-Pin MSOP T/R

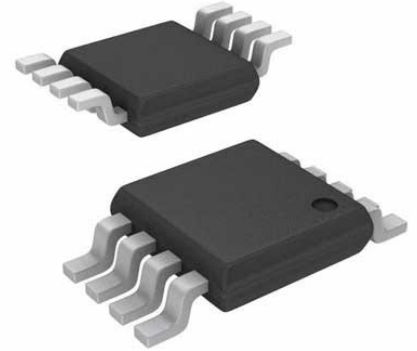
Manufacturer: [Microchip Technology, Inc](#)

Package/Case: MSOP8

Product Type: Optoelectronics

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The HV857 is a high voltage driver designed for driving Electroluminescent (EL) lamps of up to 5 square inches. The input supply voltage range is from 1.8 to 5.0V. The device uses a single inductor and a minimum number of passive components. The nominal regulated output voltage that is applied to the EL lamp is $\pm 95V$. The chip can be enabled/disabled by connecting the resistor on RSW-Osc to VDD/GND. The HV857 has two internal oscillators, a switching MOSFET, and a high voltage EL lamp driver. The frequency for the switching MOSFET is set by an external resistor connected between the RSW-Osc pin and the supply pin VDD. The EL lamp driver frequency is set by an external resistor connected between RELOsc pin and VDD pin. An external inductor is connected between the LX and VDD pins or VIN for split supply applications. A 0.003- 0.1 μF capacitor is connected between CS and ground. The EL lamp is connected between VA and VB. The switching MOSFET charges the external inductor and discharges it into the capacitor at CS. The voltage at CS will start to increase. Once the voltage at CS reaches a nominal value of 95V, the switching MOSFET is turned OFF to conserve power. The outputs VA and VB are configured as an H bridge and are switching in opposite states to achieve $\pm 95V$ across the EL lamp.

Key Features

Patented audible noise reduction

Patented lamp aging compensation

190 VPP output voltage for higher brightness

Patented output timing for high efficiency

Single cell lithium ion compatible

150nA shutdown current

Wide input voltage range 1.8 to 5.0V

Separately adjustable lamp and converter frequencies

Output voltage regulation

Split supply capability

Recommended For You

HV7224PG

Microchip Technology, Inc
QFP

HV9910CLG-G

Microchip Technology, Inc
SOP8

HV9921N3-G

Microchip Technology, Inc
TO-92

HV816K6-G

Microchip Technology, Inc
QFN

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

Microchip Technology, Inc
MSOP8