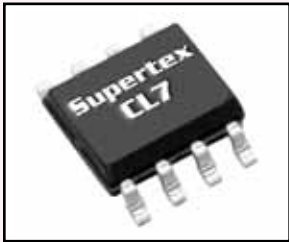


# Product Summary Sheet

CL7

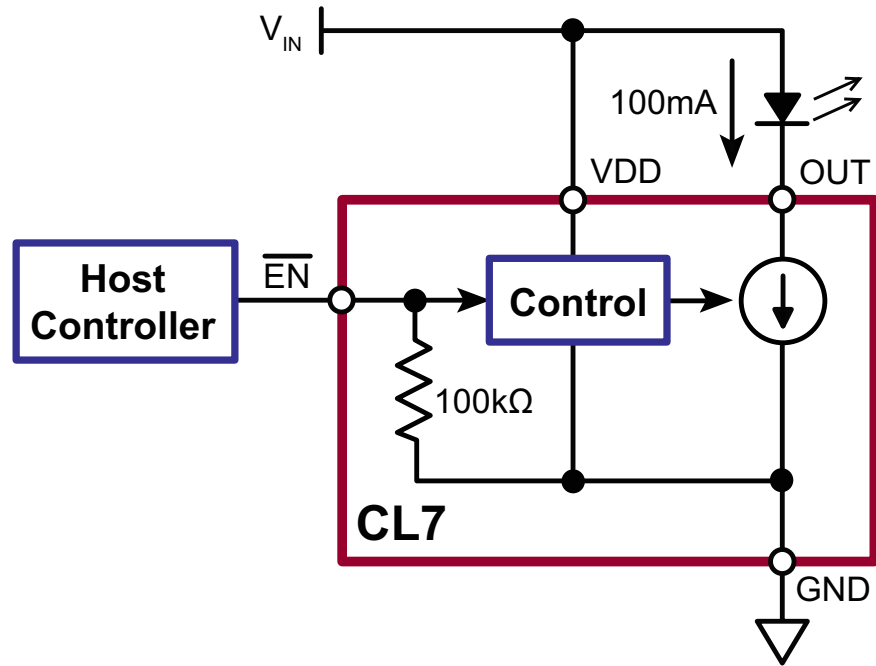
## Applications:

- ▶ Flashlights
- ▶ Speciality lighting
- ▶ Low voltage signage
- ▶ Low voltage lighting



SOIC-8 (SG)

## Linear Fixed 100mA Constant Current LED Driver



Typical Application Circuit

### Product Overview:

The CL7 is a linear fixed current regulator designed for driving high brightness LEDs at 100mA from a nominal 12V, 24V, and 48V supplies. With a maximum rating of 90V, it is able to withstand transients without the need for additional transient protection circuitry. The CL7 is offered in the Power SO-8 package.

An active low enable input ( $\overline{\text{EN}}$ ) allows logic level control of the LED for on/off control or PWM dimming. The enable input has 100kΩ pull-down resistance. For applications not needing an enable input, refer to the CL6 data sheet.

Overtemperature protection shuts off LED current when the die temperature rises above 135°C nominal. Full LED current resumes when die temperature falls below 105°C nominal.

Features:	Benefits:
Built-in reverse polarity protection	No need for an external rectifier
90V max rating	Transient immunity
Overtemperature protection	Increases reliability, tolerates LED shorts
Logic-level enable	Allows PWM dimming

**Supertex inc.**



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## Linear Fixed 100mA Constant Current LED Driver

### Ordering Information / Availability

Part Number	Package Option	Samples	Lead Time
CL7SG-G	8-Lead Power SOIC Narrow Body w/ Heat Slug	1-2 Weeks	4-5 Weeks ARO

-G indicates the part is RoHS compliant (Green).



### Product Contact

For any questions regarding the CL7, please contact your local area Supertex sales office, or contact the main office in the US at:

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 Fax: 408-222-4895  
 EMail: [mktg@supertex.com](mailto:mktg@supertex.com)  
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