



# XR46014 Product Brief

## High Voltage Constant Current Regulator

### Description

The XR46014 is an 80V constant current regulator that can drive upto 250mA. Users may adjust the regulating current from 10mA to 250mA through an external resistor.

A linear type over temperature protection function protects the system by decrease the current linearly when the junction temperature of the chip is higher than 125°C. Multiple XR46014 chips can be connected in parallel to provide higher driving current capability.

The device is available in the SOT-223-3L package.

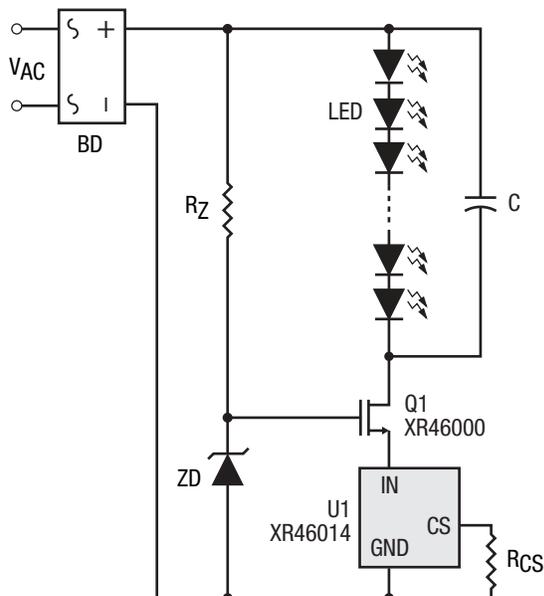
### FEATURES

- 3V to 80V operation range
- 270mV low current sense voltage
- Linear over temperature protection
- Can be parallel connected for higher current

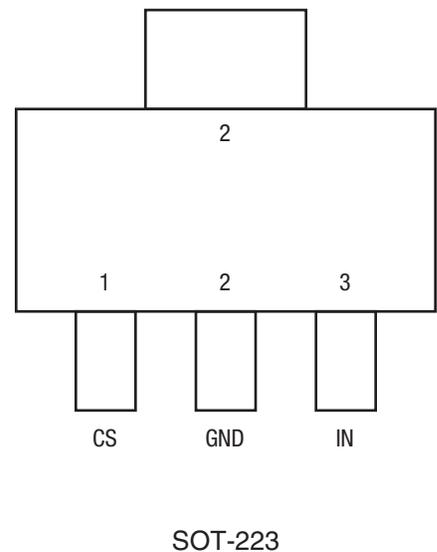
### APPLICATIONS

- LED Lighting Applications
  - Downlight
  - High bay
  - Specialty
  - Architectural

### Typical Application



### Pin Configuration



## Ordering Information<sup>(1)</sup>

Part Number	Operating Temperature Range	Lead-Free	Package	Packaging Method
XR46014ISETR	$-40^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$	Yes <sup>(2)</sup>	SOT-223	Tape and reel
XR46014-EVB	Evaluation board for XR46014			

**NOTE:**

1. Refer to [www.exar.com/XR46014](http://www.exar.com/XR46014) for most up-to-date Ordering Information.
2. Visit [www.exar.com](http://www.exar.com) for additional information on Environmental Rating.

Please contact [LEDtechsupport@exar.com](mailto:LEDtechsupport@exar.com) to request a complete datasheet.



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