

XR46010 Product Brief

Active Load Current Regulator for Phase-Cut Dimmable AC Direct Drive LED Lamp

Description

The XR46010 is an active load current regulator for phase-cut dimmable AC direct drive LED lamp system. The active load circuit can provide the holding current for TRIAC and also the charging current path of R/C circuit in a dimmer. It can help to stabilize TRIAC operation and increase the dimming range of the lamp system.

The application of the XR46010 is configured in parallel with an LED string. It conducts the current when the LED string is in off state, and stops conducting the current when the LED string is in on state.

The active load circuit can be placed in the same board with the LED string or a separate board in front of the LED board. The design is very flexible to meet various shape requirements.

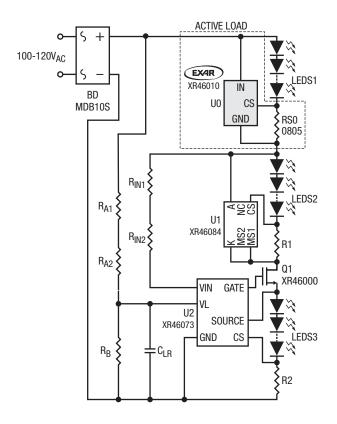
FEATURES

- 3V to 80V input operation range
- 250mV low current sense voltage
- Linear over temperature protection

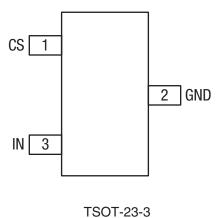
APPLICATIONS

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

Typical Application



Pin Configuration



Ordering Information(1)

Part Number	Junction Temperature Range	Lead-Free	Package	Packaging Method
XR46010ISBTR	-40°C ≤ T _J ≤ 150°C	Yes ⁽²⁾	TSOT-23-3L	Tape and reel

NOTE:

- 1. Refer to www.exar.com/XR46010 for most up-to-date Ordering Information.
- 2. Visit www.exar.com for additional information on Environmental Rating.

Please contact <u>LEDtechsupport@exar.com</u> to request a complete datasheet.



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