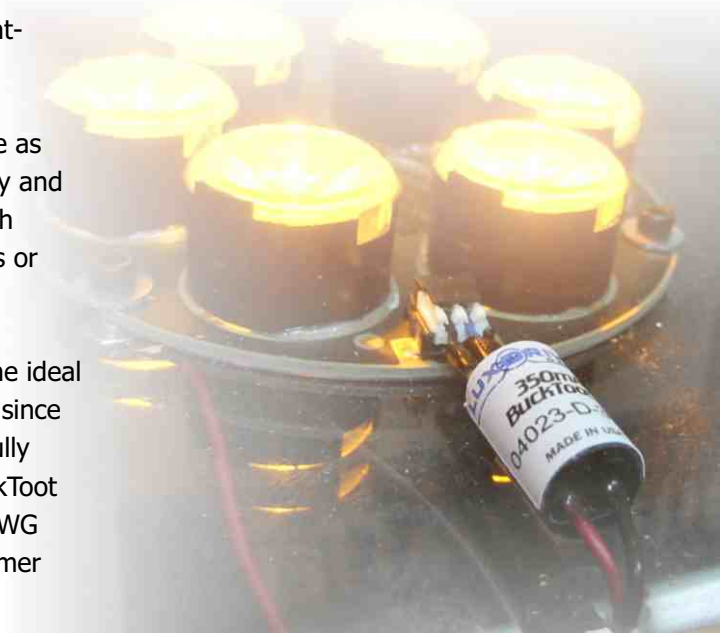
4023 BuckToot
Low-Voltage LED Power Module

Product Overview

The 4023 "BuckToot" LED Power Modules are true constant-current regulated drivers for LEDs. Unlike standard power supplies, which deliver a fixed voltage to the output, the BuckToot LED driver is designed to vary the output voltage as required to deliver a constant current to the LED(s), reliably and with stability . The 4023 BuckToot driver exhibits very high efficiency and requires no external current limiting resistors or additional heat sinking.

The extremely small form-factor of the BuckToot make it the ideal choice for many MR-11 and MR-16 integration applications since it can easily be incorporated into the housing assembly. Fully potted and sealed from harsh environments, the 4023 BuckToot measures only 0.38"d x 0.75"L and is supplied with 6" 24AWG colored leads. Customs sizes can be created to meet customer requirements. Contact LuxDrive for more information.



04023 BuckToot LED Driver Module powering (6) Luxeon I LEDs in series (V_{IN}≥24V)

Features

- DC input power up to 25V
- 350mA constant current output
- Extremely small form factor* (0.38"d x 0.75"L)
- Output short circuit protection
- Output open circuit protection

Figure 1.
Wiring Connections

Typical Applications

- Solar & Landscape Lighting
- Architectural Lighting
- Track Lighting
- Automotive & Marine Lighting
- Portable Lighting & Flashlights
- Point of Purchase Lighting
- Desk & Reading Lamps
- Signal & marker Lighting
- Cabinet & Display Case Lighting
- Sign & Channel Letters
- Much More...

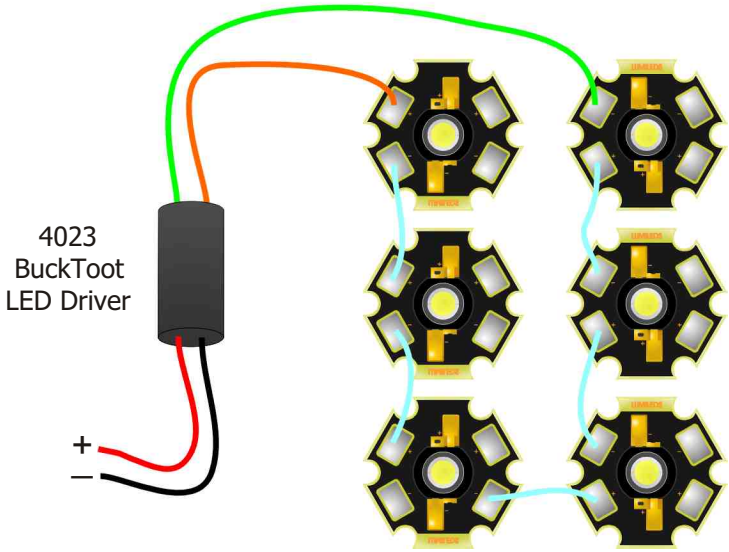


Figure 2.
BuckToot powering (6) Luxeon I LEDs in series (V_{IN} = 24VDC)

* - Units can be designed for OEM applications - Contact LuxDrive for more information

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Part Number Identification Table

Part Number	DC	AC	On-Board Trim	Ctrl Pin	Ref Pin	Ext. Pot.
4023-D-350	yes	no	no	no	no	no

Absolute Maximum Ratings

Input Voltage, DC Model. 25V
Output Voltage 25V

Typical Characteristics

Output tolerance (within specified temp. range) . . . . . ±5%
Efficiency 95%
Input Voltage Minimum . . . . . $5V_{DC}$
Input Margin (350mA unit[1], add to LED $V_{f\ MAX}$). . . . . $1.5V_{DC}$

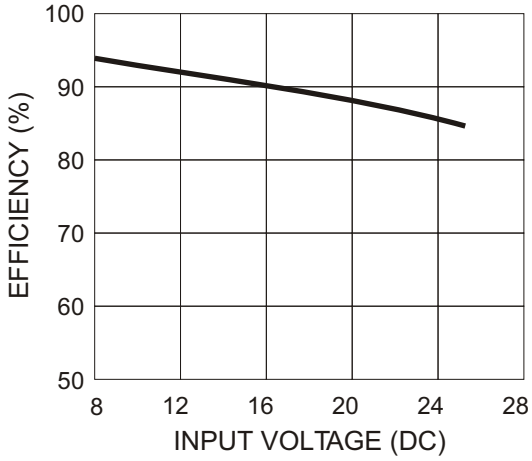


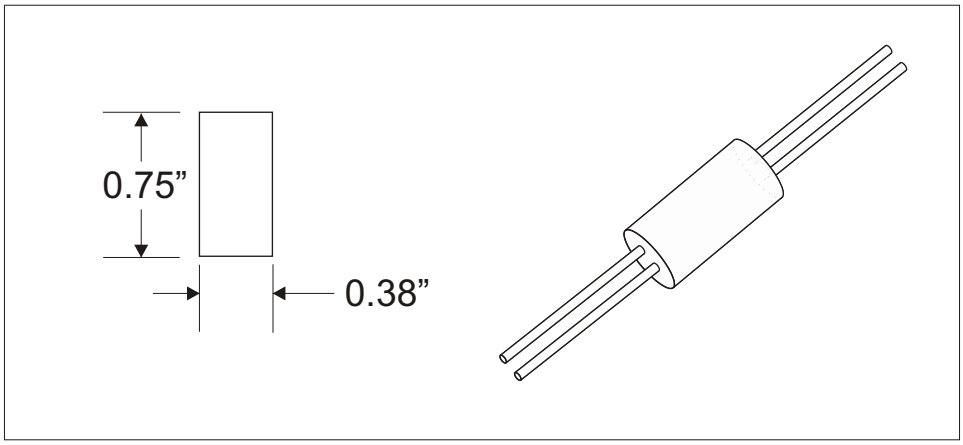
Figure 3.
Efficiency vs. Vin

Specifications

Output current, 4015-D-x-350 . . . . . 350mA
Ripple Current. 1%

Operating temperature . . . . . -40-+85°C
Storage temperature . . . . . -40-+125°C

Physical Dimensions



Shown approximately actual size

1 - Margin increases with higher current units.

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