

A009 BUCKBLOCK

High Output Wide Range LED Driver

PRODUCT OVERVIEW

The A009 BuckBlock is a high output, wide range, LED driver that are a line of true current regulated drivers for powering LEDs. The LUXdrive BuckBlock™ line of LED drivers are the ideal choice for powering all types of high-brightness and high-power LED packages and arrays.



Product		A009
General	Topology	Buck
	Input Connection	Red (V+) / Black (V-)
	Output Connection	White (LED +) / Blue (LED -)
	Dimming Connection	Pink (+) / Purple (-)
Electrical	Input Voltage	10 Vdc (min) 32 Vdc (max)
	Output Voltage, 1000mA	80% of Vin
	Output Voltage, 1400mA	75% of Vin
	Output Voltage, 2100mA	50% of Vin
	Output Current (mA)	1000, 1400, 2100
	Output Tolerance	±10%
	Efficiency	up to 90%
	Quiescent Current	< 4.5 mA
Dimming	Turn-On Voltage	1.7 Vdc ±5%
	Full-On Voltage	9 Vdc ±5%
	Dynamic Range	5 - 100%
	Current-Source	< 1 mA
Environment	Operating Temp (Tcase)	-40 to 80° C
	Storage Temp	-40 to 125° C
Mechanical	Connection	6" 18 gauge wire
	Dimension	2" x 1.2" 0.375"
	Weight	1.6 oz (45 g)

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Operation

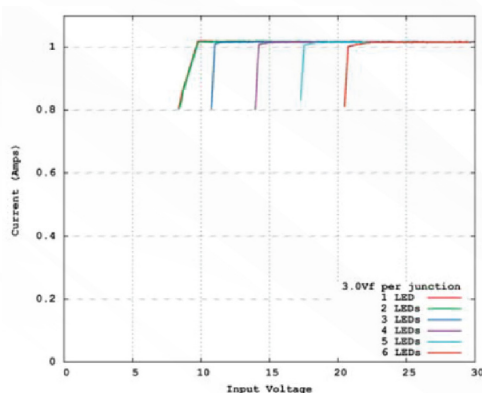


Figure 1. A009-D-V-1000
Input Voltage vs Output Current

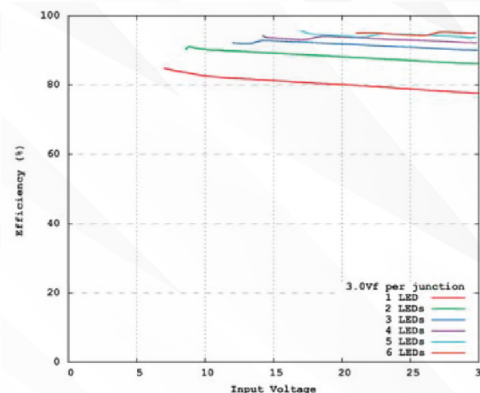


Figure 2. A009-D-V-1000
Input Voltage vs Efficiency

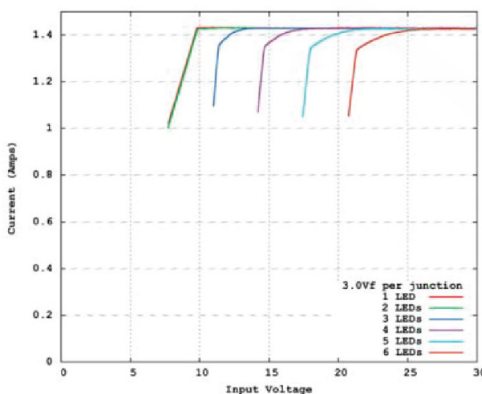


Figure 3. A009-D-V-1400
Input Voltage vs Output Current

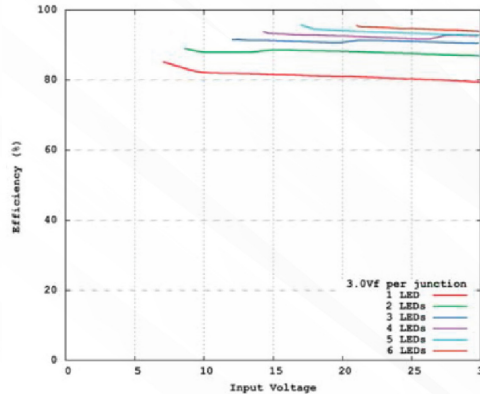


Figure 4. A009-D-V-1400
Input Voltage vs Efficiency

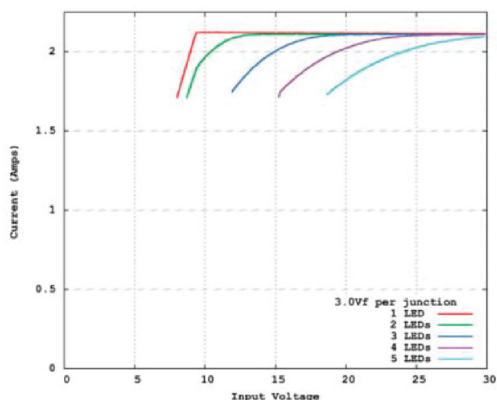


Figure 5. A009-D-V-2100
Input Voltage vs Output Current

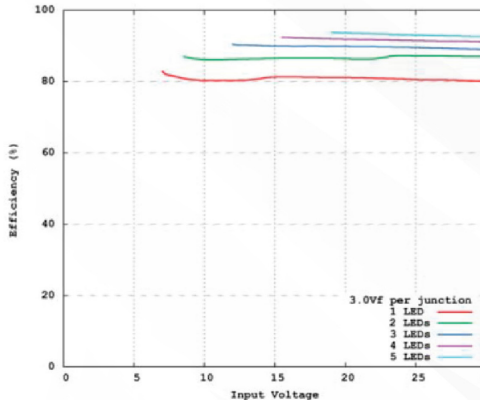


Figure 6. A009-D-V-2100
Input Voltage vs Efficiency

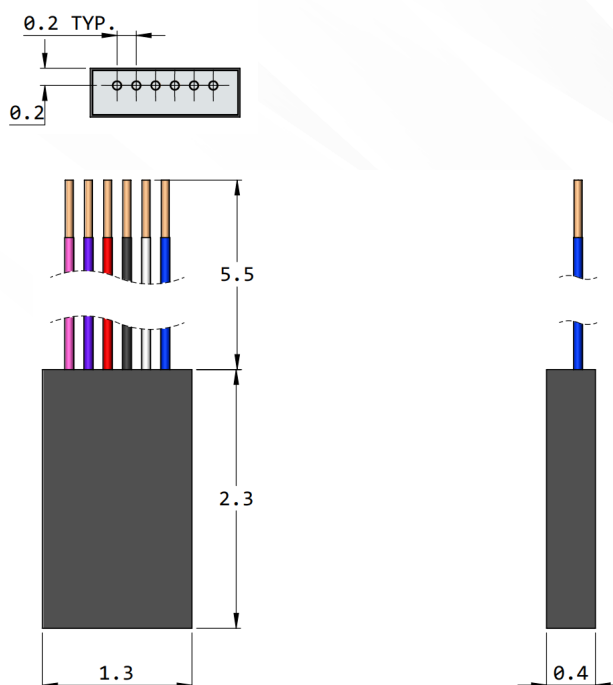
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Ordering Information

PRODUCT FAMILY	PART NUMBER	DESCRIPTION
BuckBlock	A009-D-V-1000	LUXdrive BuckBlock 1000mA
	A009-D-V-1400	LUXdrive BuckBlock 1400mA
	A009-D-V-2100	LUXdrive BuckBlock 2100mA

Mechanical



1. Dimensions in inches
2. Tolerance: 0.xx" = ± 0.015 "

Wiring Example

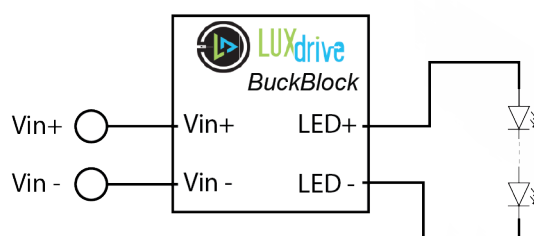


Figure 7. A009 Wire Diagram for Standard Operation