

New Product Announcement

60V LED Dimmable Linear Controller

AL5815 and AL5816 are adjustable constant current LED linear controllers offering excellent temperature stability and current capability. They can work with a wide input voltage range from 4.5V to 60V. With its low 200mV current sense FB voltage, it controls the regulation of LED current with minimum power dissipation compared with traditional linear LED drivers. This makes it ideal for medium to high current LEDs.

The device has an internal output drive up to 15mA, which enables it to drive external Bipolar transistors or MOSFETs.

The AL5815 has an enable (ENB) pin. ENB low enables the device; ENB high puts the device into a low quiescent current shutdown state.

If high speed dimming is required the AL5816 has a PWM pin. This device can run at frequencies greater than 20kHz.

AL5815 and AL5816 are available in the SOT25 package.



The Diodes Advantage

The AL5816/AL5816 provide accurate current control for driving output current up to 1A for Linear LED driver applications.

- Wide input voltage range from 4.5V to 60V
 Meets low and medium voltage requirements
- 15mA driving capability for OUT pin
 Supports up to 1A output current applications
- 200mV FB voltage
 High accuracy and low power consumption for sense resistor

Applications

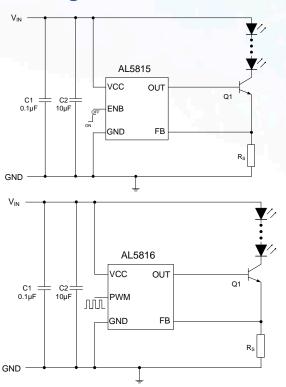
- Commercial and Industrial Lighting
- Exterior Lighting
- Appliance Lights

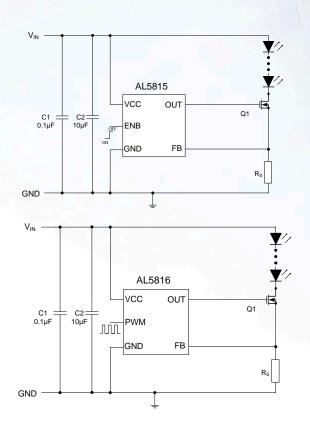


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AL5815/6

Circuit Diagram





Product Portfolio

Part Number	Product Description	Min. Input Voltage	Max. Input Voltage	Max. Output Voltage	Max. Output Current	LED Current Accuracy	Switching Frequency	Dimming Method		Efficiency	Sense Voltage (mV)	Package Outline
		V	V	V	mA	+/- %	kHz	Analog	PWM			
AL5815W5-7	60V LED Linear Controller	4.5	60	-	-	3	-	N	Υ	>80	200	SOT25
AL5816W6-7	60V LED Linear Controller	4.5	60	-	-	3	-	N	Y	>80	200	SOT25

Ordering Information

			13" Tape and Reel			
Device	Packaging	Marking ID	Quantity	Part Number Suffix		
AL5815W5-7	SOT25	BF	3,000	-7		
AL5816W6-7	SOT25	BJ	3,000	-7		