



New Product
Announcement

AP1695

Simple Cost Effective Solution for Small Power Triac Dimmable Lamps

The AP1695 is a high performance power factor corrected LED driver for offline dimmable retrofit lamps.

It uses a Boundary conduction mode (BCM)/ Pulse Frequency Modulation (PFM) technology to both regulate output current with high power factor/low THD, and low EMI.

The AP1695 uses primary side regulation to regulate the LED current removing the need for opto-couplers and loop compensation reducing the total solution cost.

Its internal 500V MOSFET further reduces both BOM cost and size.



The Diodes advantage

The AP1695 provides a simple cost effective solution for general illumination triac dimmable LED lamps

- **Unique Constant On Time (COT) Control**
Expands range of compatible dimmers; and can be triac dim down to 1%
- **Single stage high PF triac dimming solution with reduced number of external components**
Low BOM solution cost
- **Supports non-isolated Buck (120Vac and 230Vac) and Buck-boost Flyback solutions (120Vac)**
One device can meet the different isolation/cost needs of different lamps
- **Boundary Conduction Mode (BCM) Operation**
Achieved higher convert efficiency and reduced EMI issues with fewer components
- **Integration MOSFET**
support <10W LED lamps with Low BOM cost and small PCB size

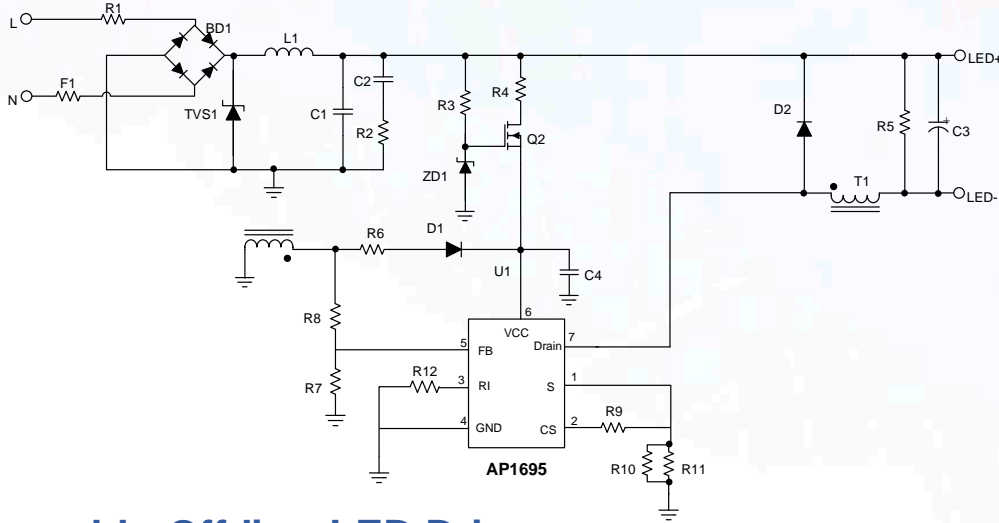
Applications

- Mains Dimmable LED Lamps: GU10, Bulb light



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Typical Application: LED retrofit lamp (Buck)



Diodes Dimmable Off-line LED Drivers

Part Number	Max. Output Voltage	Max. LED Current	current accuracy	Efficiency	Operating temp range	High Power Factor	Triac Dimmable	Topology	Package Outline	comments
	V	A	%	%	°C					
AP1694A	Ext MOS	Ext MOS	±2.5	85	-40 ~ 105	Y	Y	Buck, Buck-Boost Flyback	SO-8	External MOS For >10W lamps
AP1695	Int. MOS limited	230mA	±2.5	85	-40 ~ 105	Y	Y	Buck, Buck-Boost, Flyback	SO-7	Internal MOS For <10W lamps

To find out more information:

LED Driver Web page:

<http://www.diodes.com/products/catalog/list.php?parent-id=91>

Datasheett:

<http://www.diodes.com/datasheets/AP1695.pdf>

Ordering Information

Device	Packaging	Marking ID	Reel Size	Tape width	Quantity
AP1695MTR-G1	SO-7	1695M-G1	13"	12mm	4000

"G1" suffix in the part number, are RoHS compliant and green.