



New Product Announcement

AL1771/AL1772

High PFC Controller with Linear Current Sinks

The AL1771/1772 is a high integration chip with an offline high Power Factor Correction (PFC) controller and a single/dual-channel Linear LED driver in one package.

AL1771/1772 implements an optimized 2-stage topology for a wide power range of connected lighting applications. It is targeted for 1-channel dimmable and 2-channel tunable white and various connected lighting applications.

It has protection features to ensure robust and safety operation of the connected lighting systems.

The AL1771/1772 can support applications with LED current (Up 1500mA) and is available in low thermal resistance package TSSOP-16EP



The Diodes Advantage

AL1771/2 high power factor and low standby power exceeds the latest connected lamps' requirements

- **Low Standby Power**
Meets latest green power savings needs
- **High PF (>0.9) and Low THD (<20%)**
Meets latest standards
- **2-Stage 1-Chip Topology**
Compact board size and use less components
- **Comprehensive Internal Protection Features**
Offer robust solutions
- **Adaptive Thermal Management**
Enhance Dynamic V_{OUT} to track VLED for higher efficiency and better thermal performance

Applications

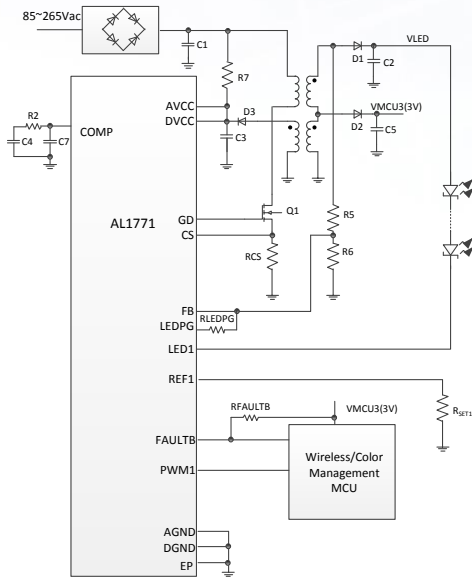
- **Connected Lamps:**
White Dimmable
Full Color LED lamps



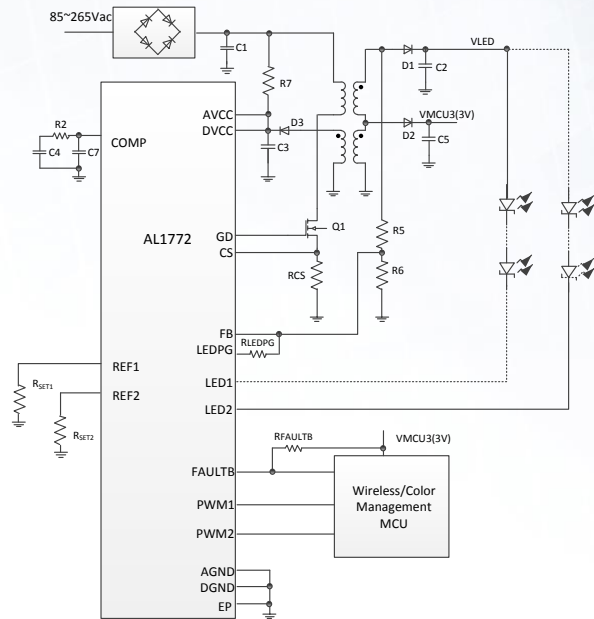
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1-Channel Dimmable White



2-Channel Tunable White



Product Portfolio

Part Number	Min. Input Voltage	Max. Input Voltage	Output Voltage	Current Sink Channel	Accuracy	Switching Freq (Max) kHz	LED Dimming Control		Operating Temp Range °C	PF	Package Outline
	V	V	V		+/- %		Analog	PWM			
AL1771	90	277	Ext-MOSFET	1	4	120	N	Y	-40 ~ +105	>0.9	TSSOP-16EP
AL1772	90	277	Ext-MOSFET	2	4	120	N	Y	-40 ~ +105	>0.9	TSSOP-16EP

Ordering Information

Part Number	Package Code	Packaging	13" Tape and Reel	
			Quantity	Part Number Suffix
AL1771T16E-13	T16E	TSSOP-16EP	2,500/Tape & Reel	-13
AL1772T16E-13	T16E	TSSOP-16EP	2,500/Tape & Reel	-13

To find out more information:
 AL1771: www.diodes.com/part/AL1771
 AL1772: www.diodes.com/part/AL1772