

Subject

2.4G Dimmable 18W LED Lighting Demo Board Manual

Board Model: LD60V0.3A3600.1621

Doc. No.: OB_DOC_DBM_3600+6122L00



100mm (L) *28mm (W) *20mm (H)

Key Features

- 2.4G color temperature and brightness adjustable for two-channel LED lighting application
- Non-isolated and primary-side constant current controller with $\pm 5\%$ current regulation
- Fast startup time 380mS@ 90Vac and low standby power 0.23W@ 264Vac
- Wide dimming range from 5% to 100%
- Open circuit protection
- No visible flicker
- EMI Meet EN55015

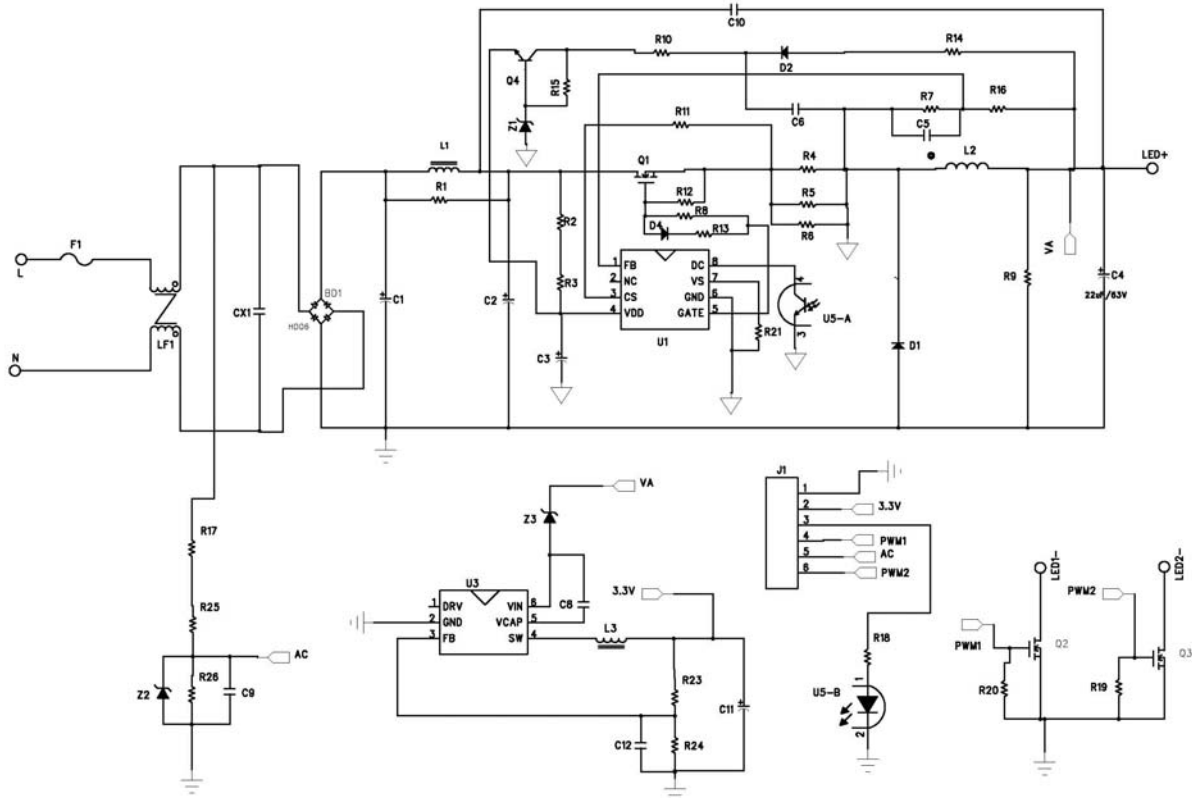
Note: The test data in this report is by 18 Series 2 Parallel 1W LED array, AC voltage from 90Vac to 264Vac, 100% dimming duty if not otherwise noted.

Revision History

Revise Date	Version	Reason/Issue
2016-6-3	00	First issue

1 LED Lighting Information

2.1 Schematic



2.2 Module Snapshot



2 Performance Evaluation

Performance Highlights

- Standby power under 300mW@264VAC
- Efficiency more than 88%@230VAC
- Startup time <0.5S
- EMI passed EN55015 test with more than 6dB margin.

Characterization Results Summary

Test Item	Test result
1. Input characteristics	
Standby power @264Vac	0.23W
Efficiency @230Vac	90.4 %
2 .Output characteristics	
Current overshoot	0%
3. Time sequence	
Turn on delay time @90Vac	380ms
4. Protections	
Open Circuit protection	OK

Disclaimer

On-Bright Electronics reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its documents, products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

This document is under copy right protection. None of any part of document could be reproduced, modified without prior written approval from On-Bright Electronics.