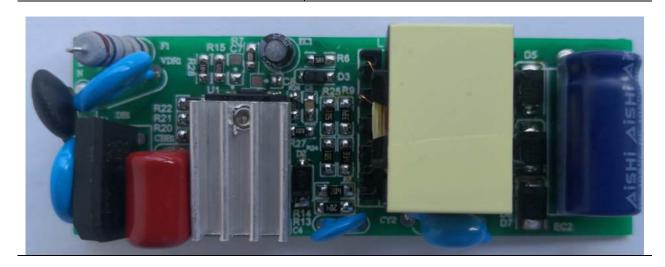


Subject

OB3639 Demo Board Manual

Board Model: LD35V1.4A3639 Doc. No.: OB_DOC_DBM_A_363900



Key features:

- Primary-side control with single stage PFC for LED driver
- Programmable Vin OVP/ foldback
- Programmable thermal foldback
- Fast startup time 0.485S@100Vac
- Power factor >0.95 and THD<10% @Full load
- Short circuit protection and Open circuit protection
- No visible flicker and audio noise free
- SURGE PASS 3kV differential mode

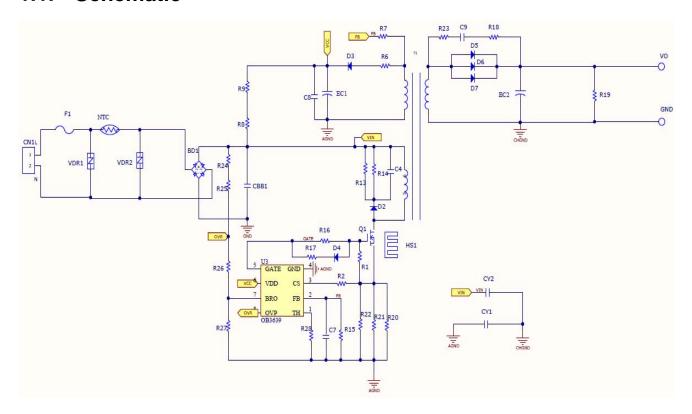
Revision History

Revise Date	Version	Reason/Issue
2020-10-26	00	First issue



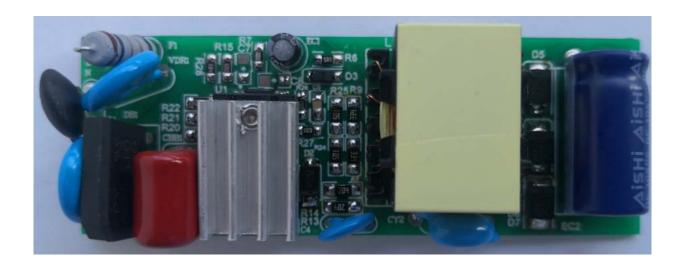
1. LED Module Information

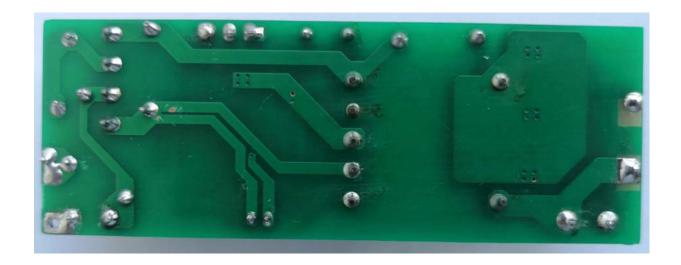
1.1. Schematic





1.2. LED Module Snapshot





SIZE: 75mm (L) x27.5mm (W) x20mm (H)



2. Performance Evaluation

Performance Highlights

- Efficiency >87%@230Vac
- Power factor >0.95
- THD<10%
- Turn on delay time<0.5S@170Vac

Characterization Results Summary

Test Item	Test result		
1. Input characteristics			
Efficiency @230Vac	87.8%		
2 .Output characteristics			
Current overshoot	0%		
3. Power factor			
Power factor @230Vac/264Vac	0.987/0.979		
4. THD			
THD@230/264Vac	6.1% / 7.8%		
5. Time sequence			
Turn on delay time @170Vac	0.35\$		
6. Protections			
Short Circuit protection	Shut down with auto-recovery		
Open Circuit protection	Shut down with auto-recovery		
AC input OVP	Gate OFF		

NOTE: The test data in this report is by full load 35V/1.4A, AC voltage from 90Vac to 264Vac if not otherwise noted.

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