

DW8552



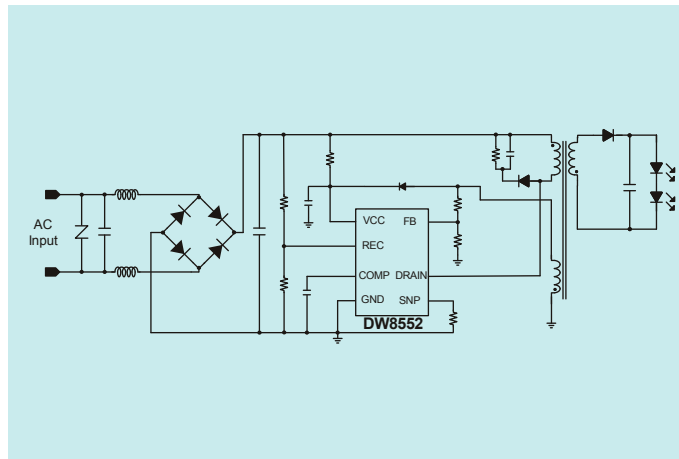
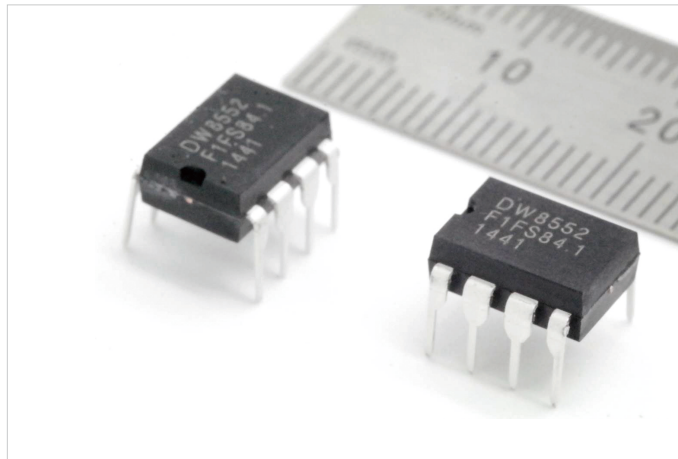
AC/DC
PSR IC with PFC
Internal MOSFET

Primary-Side Regulator LED
Driver with PFC and High
Voltage MOSFET

DW8552 is a primary-side control offline fly-back controller with active power factor correction. It is especially designed for LED lighting system. DW8552 controls the LED current accurately without using an opto-coupler, which can significantly simplify the design of LED lighting system. Utilizing an on-chip multiplier, DW8552 achieves high power factor over wide line and load ranges. The multi-protection function largely enhances the safety and the reliability of system including: over voltage protection, short circuit protection, LED open protection, cycle-by-cycle current limit, VCC UVLO and overtemperature protection.

DIP-8L ▶

W 9.40 mm
H 7.62 mm
D 7.36 mm



Features

Built-in 650V power MOSFET	LED short protection
Active power factor correction	LED open protection
Low harmonic content	Over temperature protection
High efficiency over wide operating range	
Cycle-by-cycle current limit	
Input over-voltage protection	
Real current control without secondary feedback circuit	

Applications

Isolated type LED driver applications
Bulb light
General lighting of flat panel displays
RGB backlight
General purpose constant current source
In / outdoor lighting, street, roadway, parking, construction lamp