

# AC/DC controller for non-dimmable LED lighting

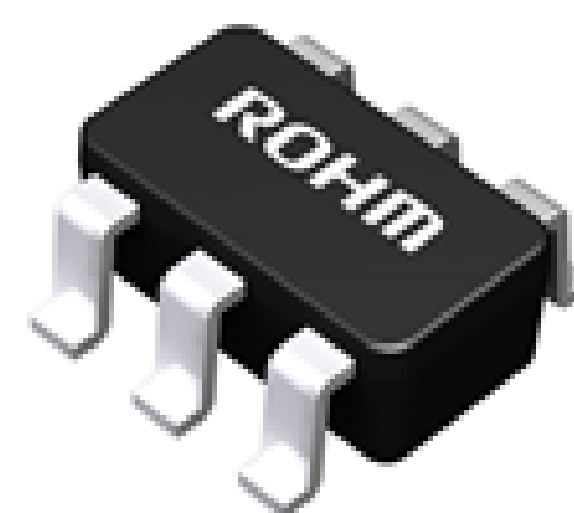
## BD550FHG



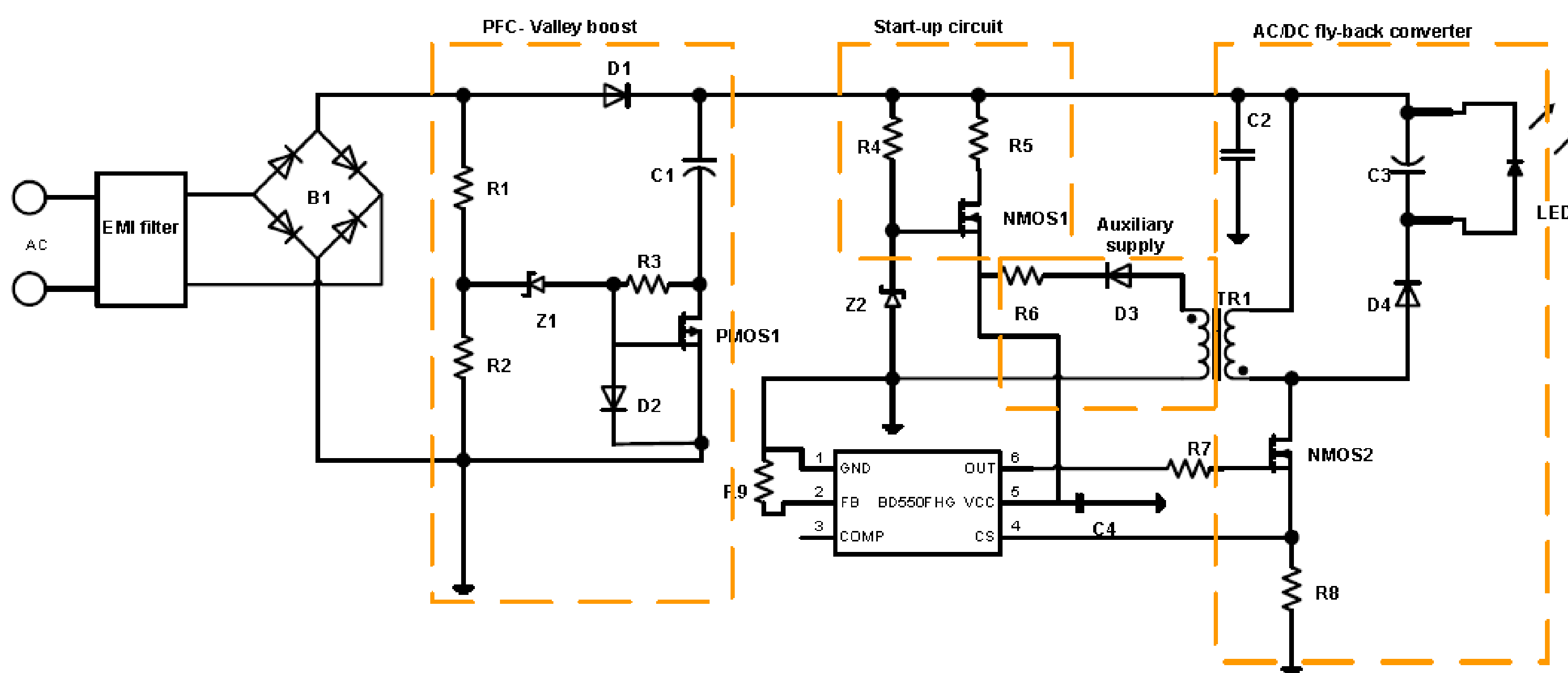
AC/DC controller IC to be used in a wide range of low-cost non-dimmable LED lighting driver applications up to 25W  
Main target application is retrofit LED lighting (E27, E14, GU10, T8)

### Features

- Fixed 65kHz DC/DC switching frequency
- Frequency hopping function to reduce EMI
- Fly-back topology for isolated or non-isolated system
- Accurate feedback (also for isolated)
- Peak current regulation with leading-edge blanking
- Optional NTC controlled thermal protection
- Thermal Shutdown protection (TSD)
- Over Voltage Protection (OVP) for IC supply
- Under Voltage Lock Out (UVLO)



### Specifications



- EMI filter – topology and type at customer's discretion.
- Valley boost circuit – ensures the input voltage does not drop below the minimum limit within one operation cycle and corrects the PF by reshaping the input current.
- Start-up circuit – provides the initial supply voltage for starting the IC.
- Auxiliary supply - provides the IC supply while the converter is running for boosting application efficiency.
- AC/DC converter – controls the LED voltage and current and provides cycle by cycle current limiting.