

ACDC driver for TRIAC, PWM or linear dimmed LED lighting

BD555BK FV

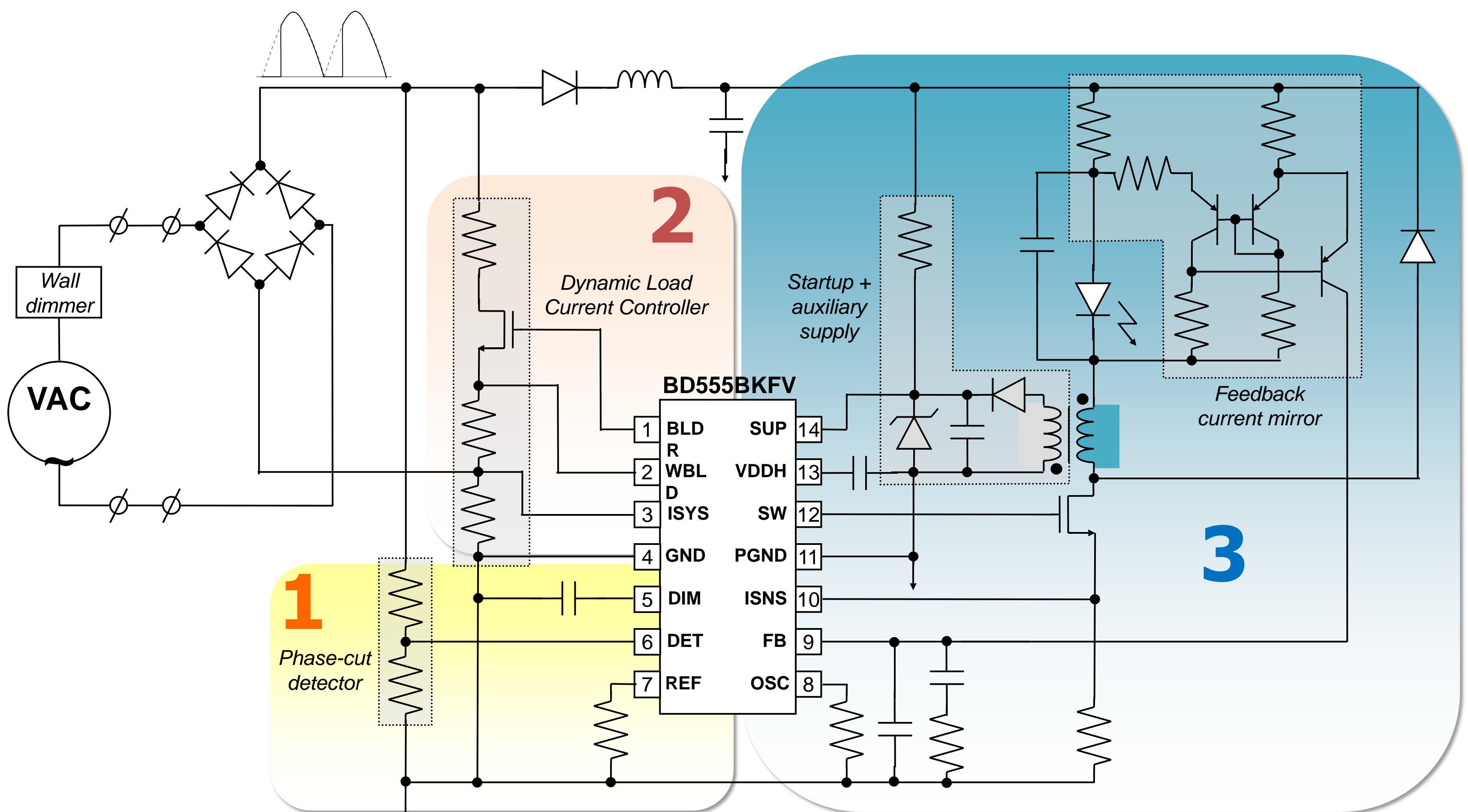


Features

- AC voltage range 80...270VAC
- <10% LED current ripple
- Average and/or peak current regulation in buck / fly-back topology
- Fixed frequency DC/DC 40...400kHz
- Accurate 'true phase-cut' detector allows wide dimming range (<5%)
- Dynamic Load Current Controller (DLCC) function for stable operation with leading/trailing edge dimmers
- False LED activation prevention for mains-powered dimmers that require standby current
- Natural 'linear' dimming through logarithmic compensation
- Dimmer detector improves efficiency by turning off DLCC current if dimmer is not present
- Supports PWM and linear dimming (for non-retrofit LED lighting)
- Internal IC supply voltage regulator
- Wide input supply voltage range 15~40V
- Low current consumption 2mA in operation
- Over Current Protection (OCP), Thermal Shut Down Protection (TSD), Under Voltage Lock Out detection (UVLO)



Specifications



- For optimal performance with TRIAC / electronic dimmers, the BD555BK FV has three main individual functions:
 1. 'True' phase-cut detector
 2. Dynamic Load Current Controller (DLCC)
 3. DC/DC controller for average current and/or peak current feedback