BP3378A

晶丰明源半导体 PWM/Analog Dimmable PSR APFC LED Controller

Description

BP3378A is a high-precision single-stage primary side APFC controller for 90Vac-277Vac universal input application.

BP3378A adopts constant ON-time control to achieve high PF. Inherent THD optimization module can further improve THD. BP3378A operates in BCM mode to improve switching loss, EMI and transformer utilization.

BP3378A supports PWM and analog dimming signal for LED dimming application.

BP3378A is packaged in SOP-8.

Features

- 90-277Vac Wide Input Range
- High PF and Low THD(PF>0.9，THD<15%)
- Precise Current Reference (±3% Typical)
- PWM/Analog Dimming Signal Compatible
- Excellent Line and Load Regulation
- Boundary Conduction Mode
- Low VCC Quiescent Current
- VCC UVLO Protection
- Cycle-by-Cycle OCP
- LED Open/Short Protection
- Thermal fold-back
- SOP-8 package

Application

- Built-in or External LED Drivers
- High-performance Dimmable LED Luminaire
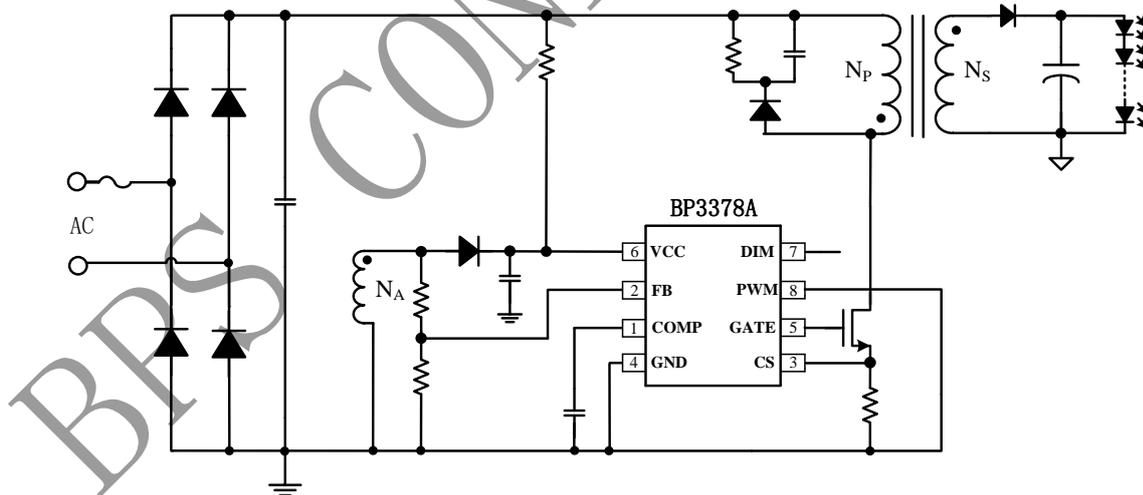
Typical Application

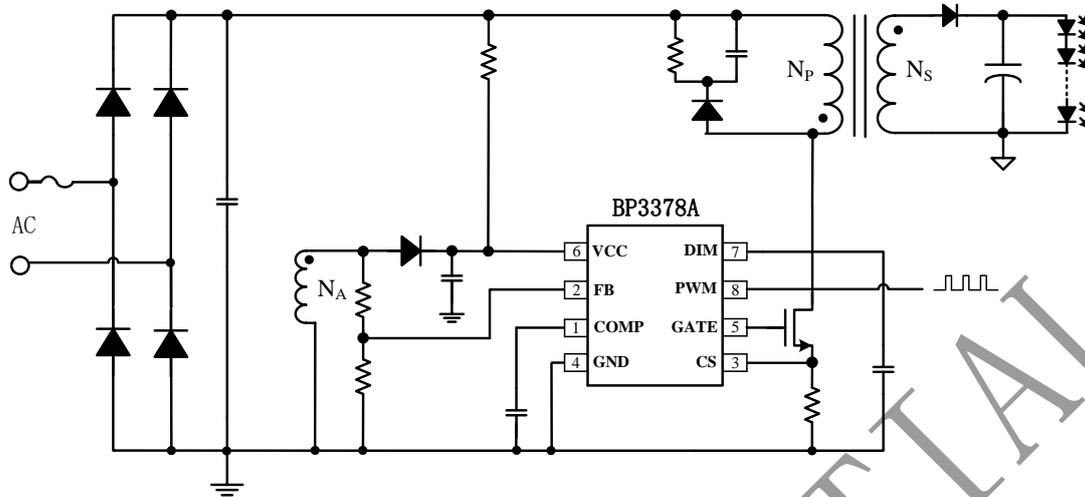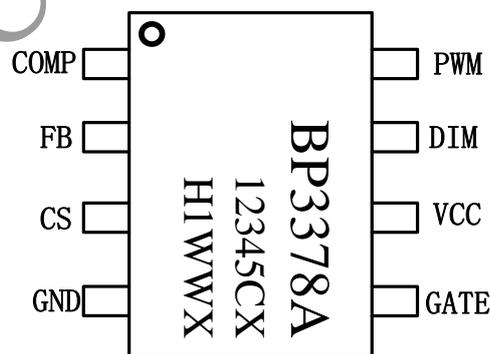Fig.1 BP3378A Typical application with Analog Dimming Signal

Fig.2 BP3378A Typical Application with PWM Dimming Signal

Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP3378A	SOP-8	-40 ℃ to 105 ℃	4,000 Piece/Reel	BP3378A 12345CX H1WWX

Pin Configuration

12345：Lot Number
C：Supplier
WW：Week
X：Suffix

Fig.3 Pin Configuration

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