

High PF PSR LED Driver Controller

General Description

BP3339 is a high PF PSR constant current LED driver with high current accuracy. It is suitable for 90Vac-277Vac universal input.

BP3339 realizes high PF by constant on time control. With internal THD optimizer, the THD of input current can be lower than 15% under universal input. BP3339 works in BCM mode, which can help to improve switching loss and EMI performance.

With internal HV start up and fast start up control, BP3339 can build up output current within 500ms.

With internal line and load compensation, BP3339 can achieve excellent line and load regulation.

BP3339 can work as floating buck-boost with single-winding inductor or isolated Flyback topology with two or three windings transformer.

BP3339 adopts SOP-8 package.

Feature

- 90-277Vac universal input
- High PF low THD (PF>0.9, THD<15%)
- Two windings for isolated application
- Build in HV start up, start up time <500mS
- High precious current reference(+/-3%)
- Good line and load regulation
- Critical conduction mode
- Low operation current
- VCC UVLO
- Cycle by cycle current limitation
- COMP pin open protection
- Output open/short protection
- Thermal fold back
- SOP-8 package

Application

- External LED driver
- Non-isolated driver for tube or down light



Typical Application

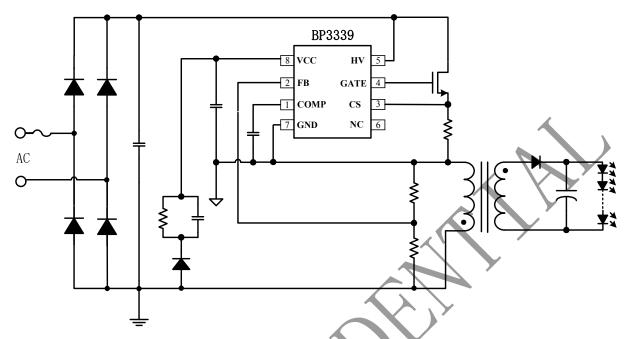


Fig 1 Floating isolated application with two-winding transformer

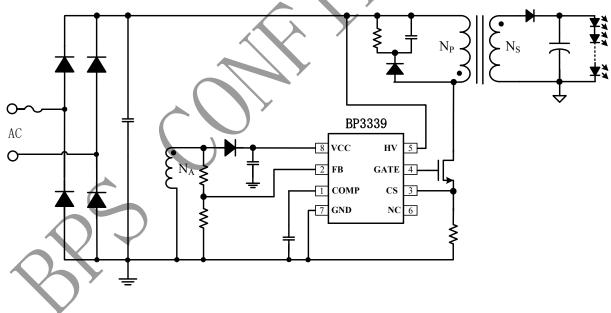


Fig 2 Grounded isolated application with Three-winding transformer



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Ordering Information

Part number	Package	Temperature Range	Packing	Marking
BP3339	SOP-8	-40 ℃ to 105 ℃	4000 pcs/reel	BP3339 YYYYYCX H1WWX

Pin Definition

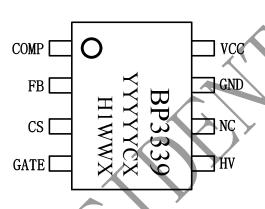


Fig 3 Pin assignments

YYYYY: Lot Number

C: Supplier

WW: Week Number

X: Suffix

Pin Description

Number	Name	Description	
1	COMP	Loop compensation	
2	FB	Feedback	
3	CS	Primary side current sense, connected with sense resistor	
4	GATE	Output for driving signal	
5	HV	HV start up pin	
6	NC	No connection	
7	GND	IC ground	
8	VCC	Power supply for IC	



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