

Description

BP5131HC is a high current precision Linear LED Driver, integrated with High Voltage regulation switchers and JFET supply, specially designed for AC line LED strings forwarded with high voltage and lowcurrent.

In application, it supports a quite small BOM benefit from no ECAP and no Magnetics, compile with EM and safety standard.

BP5131HC can drive precision constant current by option of an external resistor, and set up the LED strings in group linear compile with THD performance. Typical 40mA LED current is optimized for 220/ line voltage.

Features

- ♦ High integration, all SIVTs in small size.
- No ECAPs and magnetics
- Integrated with 500V HV IVOS, saved on safety components.
- ♦ Fast startup
- LED current set by external resistors with ±5% accuracy.
- ♦ On chip thermal regulation.
- ♦ Compensation for line regulation
- In ESOP8 package,

Application

- ♦ GU10/E27 LED retrofit lamps
- ♦ LED candle
- ♦ Other LED lighting

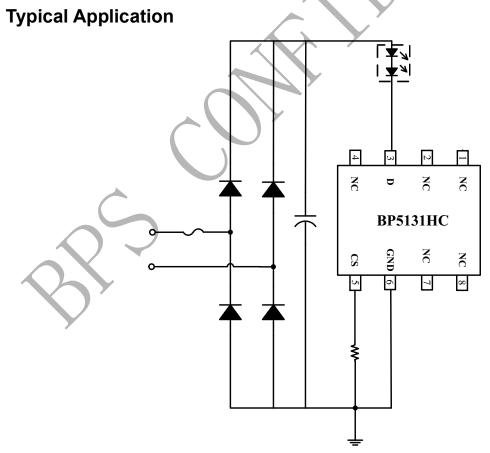


Fig.1 BP5131HC Typical Applicae

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Order Information

Part Number	Package	Temperature	Packing Method	Mark
BP5131HC	ESOP8	-40 ℃ to105 ℃	Таре	BP5131H XXXXXY WKYYC
			4,000 pcs/reel	

Pin mapping

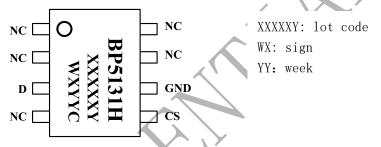


Fig 2BP5131HC Pin Mapping

Pin Descriptions

Pin No.	Pin Name	Descriptions
1,2,47,8	NC	Not connect
3	D	Drain for LED string
5	cs	Current sense, connect the current sense resistor to GND
6	GND	IC ground