

BP5131HC

High Voltage Linear LED Driver

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.

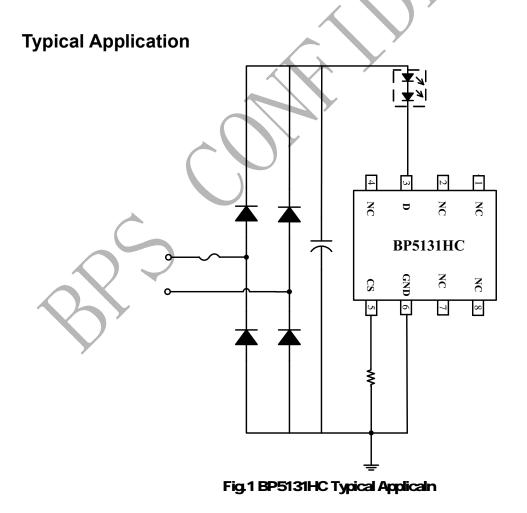
BP5131HC can drive precision constant current by option of an external resistor, and set up the LED strings in group linear compile with THD performance. Typical 40mA LED current is optimized for 220/ line voltage.

Features

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

Application

- GU10E27 LED retrofit lamps
- LED candle
- Other LED lighting





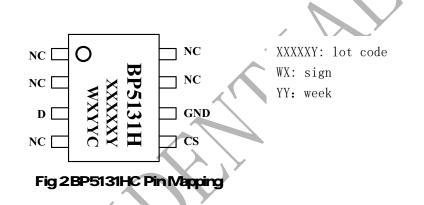
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Order Information

Part Number	Package	Temperature	Packing Method	Mark
BP5131HC	ESOP8	-40 °C 10105 °C	Таре	BP5131H
			4,000 pcs/reel	XXXXXY VXXYYC

Pin mapping



Pin Descriptions

Pin No.	Pin Name	Descriptions	
1,2,4,7,8	NC	Not connect	
3	D	Drain for LED string	
5	cs	Current sense, connect the current sense resistor to GND	
6	GND	IC ground	



