

## Low Standby Power Non-isolated CV Converter

### Description

The BP2525X is an ultra-lawaring isolated buck converter for constant output voltage application. The device is suitable for 85Vac~265Vac

The BP2525X integrates a high voltage power MOSFET. With the output voltage and current control technique, it can get excellent CV regulation. The chip integrates smart high voltage startup and power supply circuit.

The BP2525X Educial WM Teep M Muliperfiect control, and powering VCC by output voltage, which contribute to very low standby power, high efficiency, excellent dynamic response and minimized audible noise.

The BP2525X is available in SOT33-5A package.



SOT33-5A package

### **Features**

- Standby power <20mW at 120Vac and 230Vac</li>
- Fixed 3.3V and 5V output voltage
- Support direct 3.3V output without LDO
- Reduced audible noise
- Internal High Voltage Power MOSFET
- Integrated HV startup
- Excellent dynamic response for smaller output voltage ripple
- ±5% output CV accuracy
- Integrated soft startup function
- SOT33-5A package

### **Protection Function**

- Overload protection
- Output short protection
- Over temperature protection
- Cycle by cycle Current limitation

# **Applications**

- Standby power supply for smart lighting
- Oteranamiling province confinitions:

## **Typical Application**

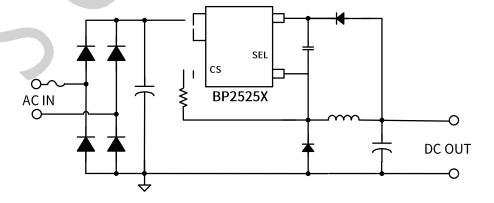


Figure 1. Typical application circuit for BP2525X



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# **Ordering Information**

Part Number	Package	Operating Temperature	Package Method	Marking
BP2525X	SOT33-5A	-40 °C to 105 °C	Tape 7,500pcs/reel	BP2525 XXXXXY ZZZZWWX

# Pin Configuration and Marking Information

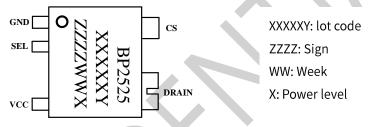


Figure 2. Pin configuration

## **Pin Definition**

Pin No.	Name	Description	
1	GND	Ground	
2	SEL	Output voltage selection pin. To VCC: Vout= 3.3V; To GND Vout= 5V	
3	VCC	Power supply pin	
4	DRAIN	Drain of the integrated HV MOSFET	
5	CS	Current Sense Pin. Connect a resistor to GND to sense the MOS current.	



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### Disclaimer

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