

Low Standby Power Non-isolated CV Converter

Features

The BP2525X is an ultra-low standby power non-isolated buck converter for constant output voltage application. The device is suitable for 85Vac~265Vac universal input non-isolated auxiliary power supply.

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 a smart high voltage startup and power supply circuit.

The BP2525X typically utilizes PWM & PFM modulation 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.

Standby power <20mW at 120Vac and 230Vac

Fixed 3.3V and 5V output voltage

Support direct 3.3V output without LDO

Excellent audible noise

Internal High Voltage Power MOSFET

Integrated HV startup

Excellent dynamic response for smaller output voltage ripple

±5% output CV accuracy

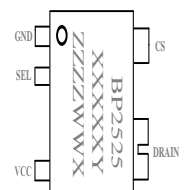
Integrated soft startup function

SOT33-5A package

Protection Function

SOT33-5A package

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