

DESCRIPTION

MT8803T0 is an ultra-low standby power dissipation, non-isolated, BUCK, constant voltage driver, which is suitable for non-isolated power applications with the input range of 85Vac~264Vac.

MT8803T0 incorporates high-voltage power switcher and current sense resistor, excellent constant voltage can be achieved without external compensation capacitor, saving system cost and the BOM size greatly.

MT8803T0 is designed with multi-mode control technology. The chip gets power through both VCC and JFET and can effectively reduce system power consumption.

MT8803T0 provides various protection features to enhance the system reliability, such as cycle-by cycle current limiting (OCP), Over Temperature protection (OTP), over load protection (OLP), short circuit protection (SCP), etc.

FEATURES

- Ultra-low standby power dissipation: <math><20\text{mW}@120\text{Vac}\&230\text{Vac}</math>
- Integrated with high-voltage power MOSFET
- Selectable output voltage: 3.3V or 5V
- Integrates high voltage startup and power supply circuit
- Excellent dynamic response
- Frequency jittering technology to reduced EMI
- Output voltage accuracy: $\pm 5\%$
- Soft start-up
- Various protection features
 - Cycle-by cycle current limiting (OCP)
 - Over Temperature protection (OTP)
 - Over load protection (OLP)
 - Short circuit protection (SCP)
- Available in SOT23-5 Package

APPLICATIONS

- Auxiliary power
- Other applications

TYPICAL APPLICATION CIRCUIT

