High Performance Off-line PWM Converters

Description

DK112 is a fly-back AC-DC switched-mode power supply controlling chip. It is designed with high integration of CMOS circuit, with short circuit output, secondary-side open circuit, over temperature, over voltage and other protection functions. With built-in HV power transistor and patented self-power supply circuit, it has the characteristics that lots of external components are saved and the design of transformer is simple (only two windings are needed in transformer for isolated output circuit), etc.

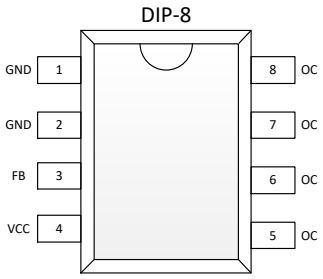
Applications

- AC-DC power adapter
- LED power supply
- Air conditioner power supply
- DVD/VCD/TV/Monitor power supply, etc.

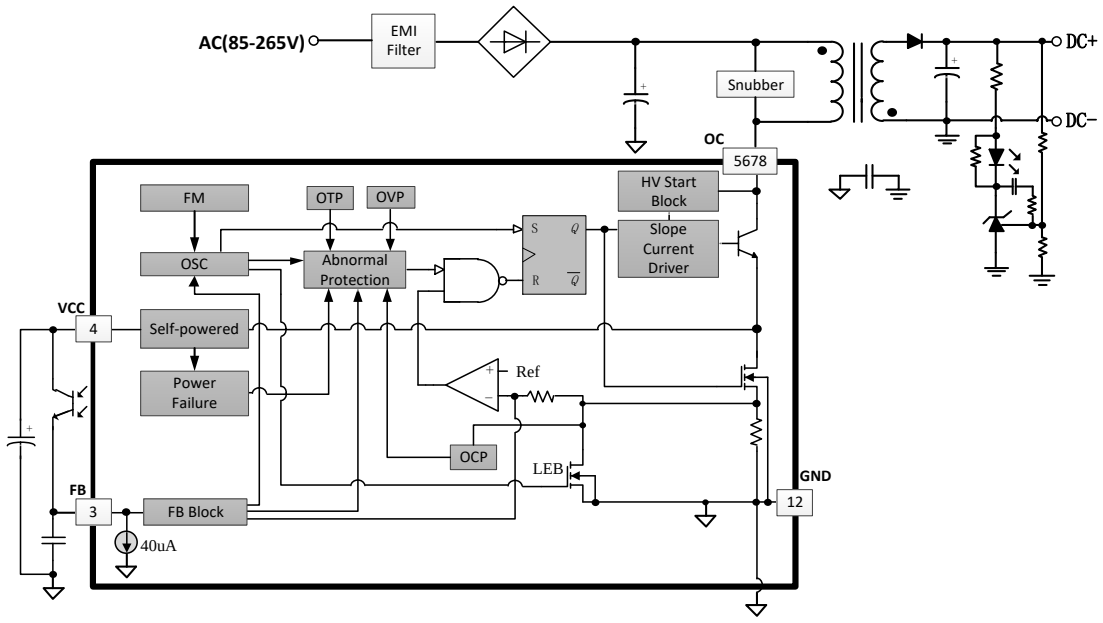
Main Features

- Global voltage input AC 85V-265V
- Built-in 700V high voltage BJT
- Internal HV start-up circuit
- No-load consumption power < 0.3W
- 65KHz PWM switching frequency
- Patented self-power supply design
- Built-in slope compensation circuit
- Frequency modulation for low EMI
- Over temperature, over current, over voltage, short circuit output and secondary open circuit protection
- 4KV ESD

Package/Order Information



Product Model	Package Type	Typical Power
		85-265V_{AC}
DK112 (Ordinary)	DIP-8	12W
DK112 (Top-grade)	DIP-8	15W

Remark: Test typical power in closed environment @45℃ ambient temperature.

Function Structure Diagram