Current Mode PWM Controller SDC603

General Description

SDC603 is a high-performance current mode control IC designed for AC/DC convertor, which supplies about continuous 12W output power at the universal AC input range from 85V to 265V.

Features

- Built-in high voltage power transistor of 700V
- High voltage start-up
- Very low start-up and operating current
- Low standby power consumption
- Protections: OVP, UVLO, SCP, OLP and OTP
- Built-in high precise current limit with temperature compensation
- 12W and peak 15W output power at the universal AC input range
- 15W and peak 18W output power at AC input 220V
- Very few external components
- Package: DIP-8

Applications

- Offline AC/DC flyback converter
- Adaptor/Charger for cell and other Portable Apparatus
- Open Frame (for example, DVD, DVB)

DIP-8

Figure 1. Package Type

Pin Configuration

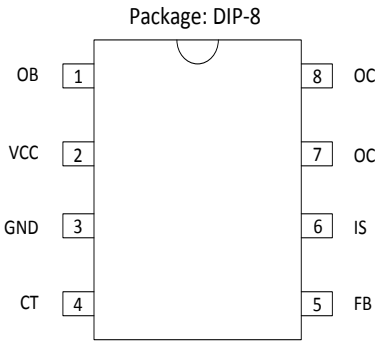

Figure 2. Pin Configuration

Pin Number	Pin Name	Function
1	OB	Startup current input, connecting to startup resistor
2	VCC	Supply voltage pin
3	GND	Ground
4	CT	Oscillate capacitor pin
5	FB	Feedback pin
6	IS	Cycle-by-cycle current limit, connecting a resistor to GND
7,8	OC	Output of HV transistor, connecting to primary wind of transformer

Table 1. Pin Description

Functional Block Diagram

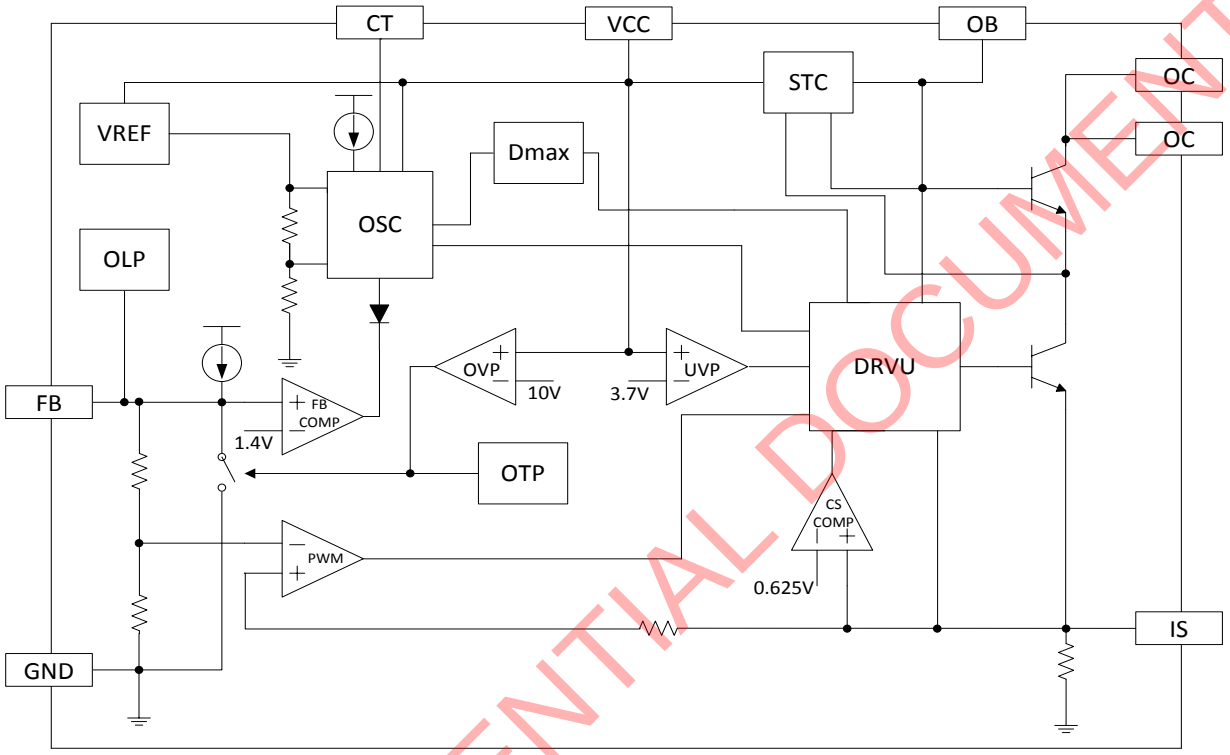

Figure 3. Functional Block Diagram