

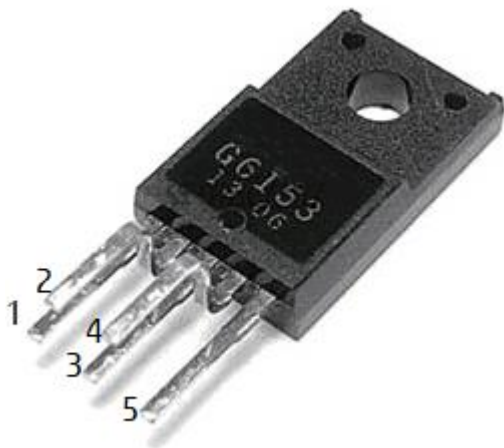
# STR-G6153 Datasheet

The Part Number is STR-G6153, STRG6153. The function of this semiconductor is FLYBACK SWITCHING REGULATOR. The package is TO-220 Type. Manufacturer: Sanken

## Features

- Quasi-Resonant Operation
- Output Power to 66 W
- Low-Loss, Pulse-Ratio-Control Standby Mode
- Temperature-Compensated Pulse-by-Pulse Over-Current Protect
- Latched Over-Voltage and Thermal Protection
- Under-Voltage Lockout with Hysteresis
- Active Low-Pass Filter for Enhanced Light-Load Stability
- Switched Attenuation of Leading-Edge Current-Sensing Signal
- Regulated Soft Gate Drive
- Adjustable Switching Speed for EMI Control
- Overmolded Five-Pin Package Pinout

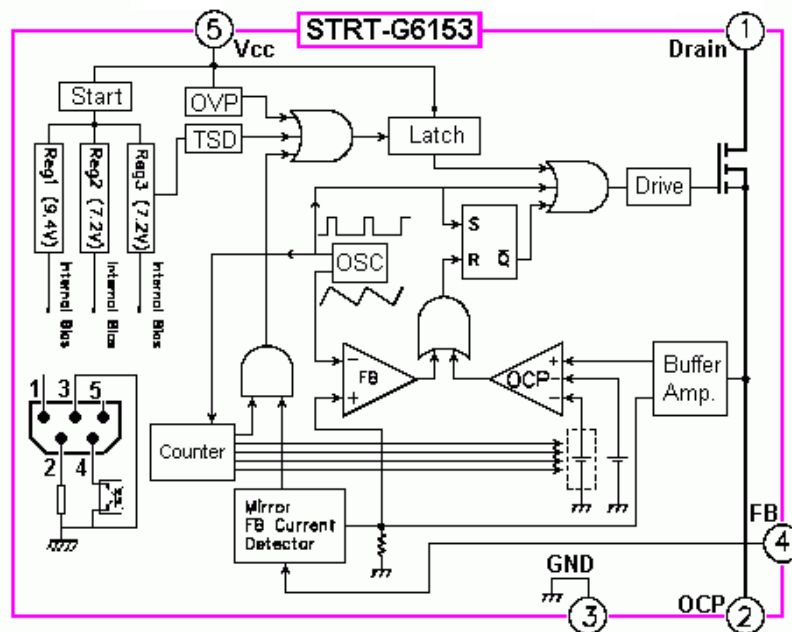
## Image and Pinouts



## Pin descriptions

1. D Drain terminal : MOSFET drain
2. OCP Over-current terminal: Input signal of detecting over-current in primary part
3. GND Ground terminal: Ground
4. FB Feed-Back terminal: Input signal of controlling constant voltage
5. VCC Power terminal: Input control circuit power

## Description



Circuit Functional Block Diagram

**STR-G6153** is Flyback Converter Switching Regulator. An offline quasi-resonant flyback switching regulator is a type of power supply circuit used in offline applications, where the power source is directly connected to the mains voltage (AC line). The term "quasi-resonant" refers to the operating mode of the flyback converter, which combines characteristics of both continuous and discontinuous conduction modes to improve efficiency and reduce switching losses. The flyback switching regulator is a popular topology for offline power supplies due to its simplicity, cost-effectiveness, and ability to provide galvanic isolation between the input and output. It is commonly used in various low to medium power applications, such as power adapters, LED drivers, and some battery chargers.

## Application

### Printer Supply

