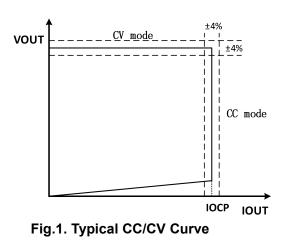
1. General Description

G1135P-S is a high performance offline PWM Power switch for low power AC/DC charger and adaptor application. It operates in primary side regulation.Consequently,opto-coupler and TL431 could be eliminated.

Proprietary Constant Voltage (CV) and Constant Current (CC) control is integrated as shown in the Fig.1. In CC control, the current and output power setting can be adjusted externally by the sense resistor R_{CS} at CS pin. In CV control, multi-mode operations are utilized to achieve high performance and high efficiency.

In addition, good load regulation is achieved by the built-in cable drop compensation. Device operates in PFM in CC mode as well at large load condition and it operates in PWM with frequency reduction at light/medium load.

G1135P-S offers perfect protection function with auto-recovery features including Cycle-by-Cycle current limiting (OCP), VDD UVLO and OVP,VDD clamp, Secondary rectifier Diode short protection etc.



Features

- ◆ Built-in High-Voltage Power MOS
- ♦ 4% CV and CC Regulation at Universal AC input
- Standby Power consumption less than70mW
- Programmable CV and CC Regulation
- ◆ No audible noise over entire operating range
- Programmable cable drop compensation
- Integrated line voltage and load voltage constant current compensation
- Built-in Leading Edge Blanking (LEB)
- Comprehensive protection coverage
 VDD under voltage lockout with hysteresis (UVLO)
 - •VDD over voltage protection (VDD OVP)
 - •Cycle-by-Cycle current limiting
 - •Output over voltage protection (Output OVP)
 - •Secondary rectifier diode Open and short circuit protection
 - •Secondary winding Open and short circuit protection
- •FB pin to GND short circuit protection
- Pb-free DIP7

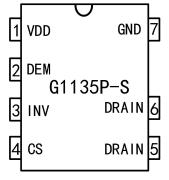
Applications

- ♦ Cell Phone Charger
- ◆ Digital Cameras Charger
- LED Driver
- Small Power Adaptor
- ♦ Auxiliary Power for PC, TV etc.
- Linear Regulator/RCC Replacement

G1135P-S High Precision CC/CV Primary-Side PWM Power Switch

2. Products Information

2.1 Pin configuration



DIP7 Package

Fig.2. G1135P-S Pin Configuration

Pin Name	I/O	Description
VDD	Power Input	Power Supply
DEM	Analog Input	Functions pin.Connecting two resistors from Vaux to ground can adjust output OVP trigger voltage.
INV	Analog Input	The Voltage feedback from auxiliary winding. Connected to resistor divider from auxiliary winding reflecting output voltage.
CS	Analog Input	Current sense input. Connected to primary current sensing resistor.
DRAIN	Output	HV MOSFET Drain Pin. The Drain pin is connected to the primary lead of the transformer
GND	Ground	Ground