

super-QR/PSR™ CV/CC Controller
FEATURES

- ◆ Easily Meet EPS Level 6
- ◆ Less than 75mW Standby Power
- ◆ Proprietary **super-QR/PSR™** (Quasi-Resonant & Primary Side Regulation) Control for High Efficiency and Low EMI
- ◆ ±5% CC and CV Precision
- ◆ Proprietary Cable Drop Compensation
- ◆ Smart Output Short Protection
- ◆ Cycle-by-Cycle Current Limiting
- ◆ Built-in Leading Edge Blanking (LEB)
- ◆ Pin Floating Protection
- ◆ Built-in Soft Start
- ◆ Output Over Voltage Protection
- ◆ VDD OVP & Clamp
- ◆ VDD Under Voltage Lockout (UVLO)

GENERAL DESCRIPTION

SF6761S is a high performance, highly integrated QR (Quasi Resonant Mode) and Primary Side Regulation (PSR) controller for offline small power converter applications.

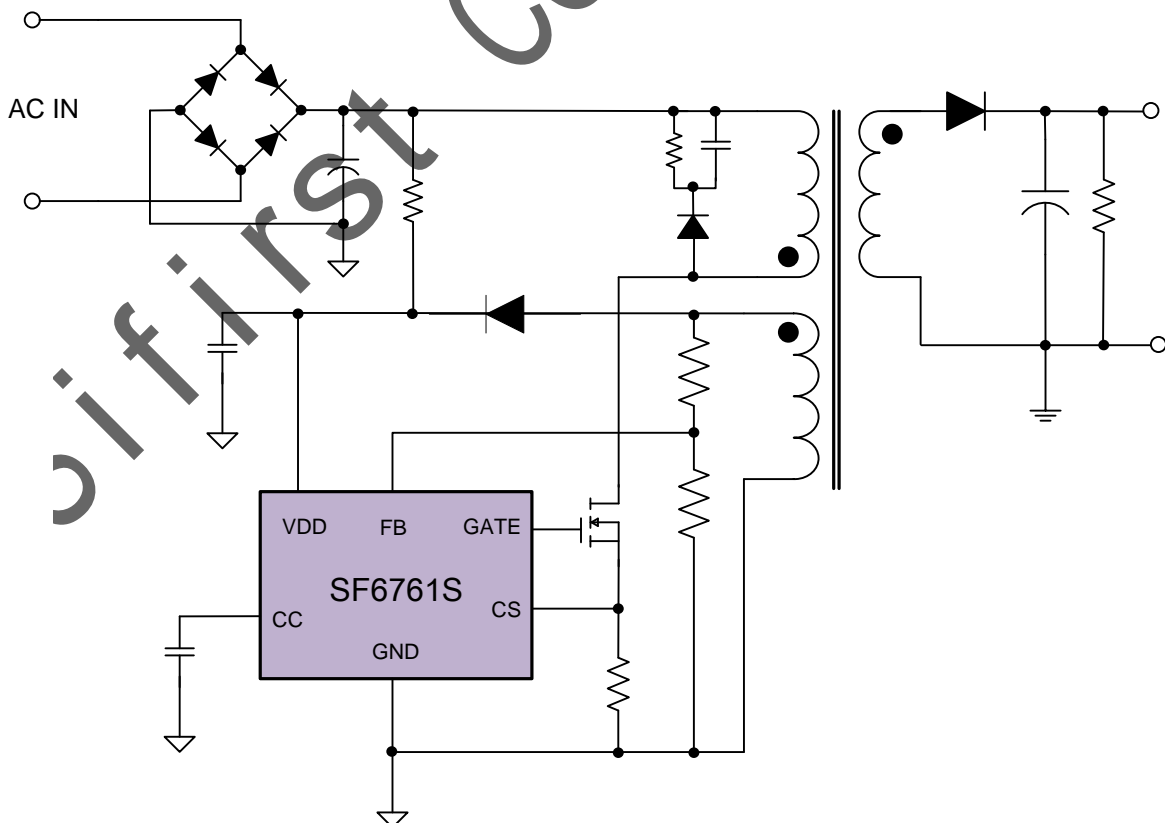
SF6761S has proprietary **super-QR/PSR™** control for high efficiency and low EMI. The standby power is less than 75mW @230VAC. Thus, the IC can meet EPS Level 6 energy standard easily. The IC also has built-in cable drop compensation function, which can provide excellent CV performance.

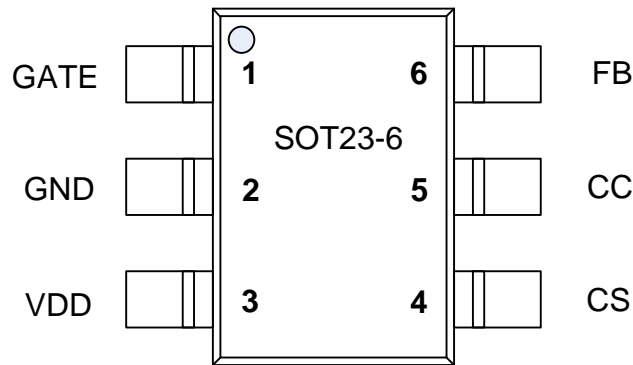
SF6761S integrates functions and protections of Under Voltage Lockout (UVLO), VDD Over Voltage Protection (VDD OVP), Soft Start, Cycle-by-cycle Current Limiting (OCP), Pin Floating Protection, Gate Clamping, VDD Clamping.

SF6761S is available in SOT23-6 package.

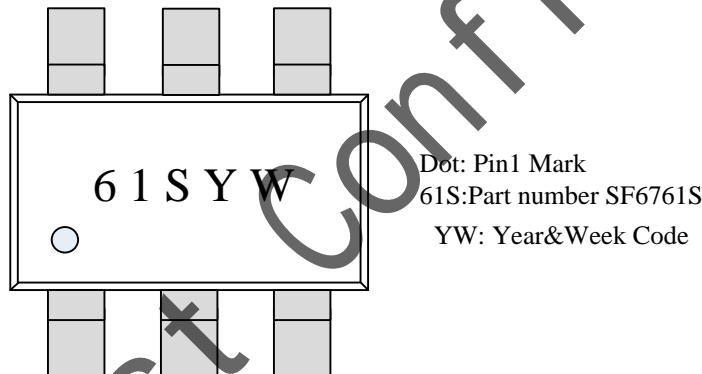
APPLICATIONS

- ◆ Battery chargers for cellular phones, cordless phones, PDA, digital cameras, etc
- ◆ Replaces linear transformer and RCC SMPS
- ◆ AC/DC LED lighting

TYPICAL APPLICATION


Pin Configuration

Ordering Information

Part Number	Top Mark	Package		Tape & Reel
SF6761SLGT	61SYW	SOT23-6	Green	Yes

Marking Information

Pin Description

Pin Num	Pin Name	I/O	Description
1	GATE	O	Totem-pole gate driver output to drive the external MOSFET.
2	GND	P	Ground
3	VDD	P	IC power supply pin.
4	CS	I	Current sense pin.
5	CC	O	Connect a capacitor between this pin and GND for CC regulation.
6	FB	I	System feedback pin. This control input regulates both the output voltage in CV mode and output current in CC mode based on the flyback voltage of the auxiliary winding.