

## super-QR/PSR™ CV/CC Controller

### FEATURES

- ◆ Easily Meet EPS Level 6
- ◆ Proprietary **super-QR/PSR™** (Quasi-Resonant & Primary Side Regulation) Control for High Efficiency and Low EMI
- ◆ Support “No-Snubber & “No-Y” Design in 5W (5V/1A) Charger Applications
- ◆ Less than 70mW Standby Power
- ◆  $\pm 5\%$  CC and CV Precision
- ◆ Proprietary Cable Drop Compensation
- ◆ 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)

### APPLICATIONS

- ◆ Battery chargers for cellular phones, cordless phones, PDA, digital cameras, etc
- ◆ Replaces linear transformer and RCC SMPS

### ◆ AC/DC LED lighting

### GENERAL DESCRIPTION

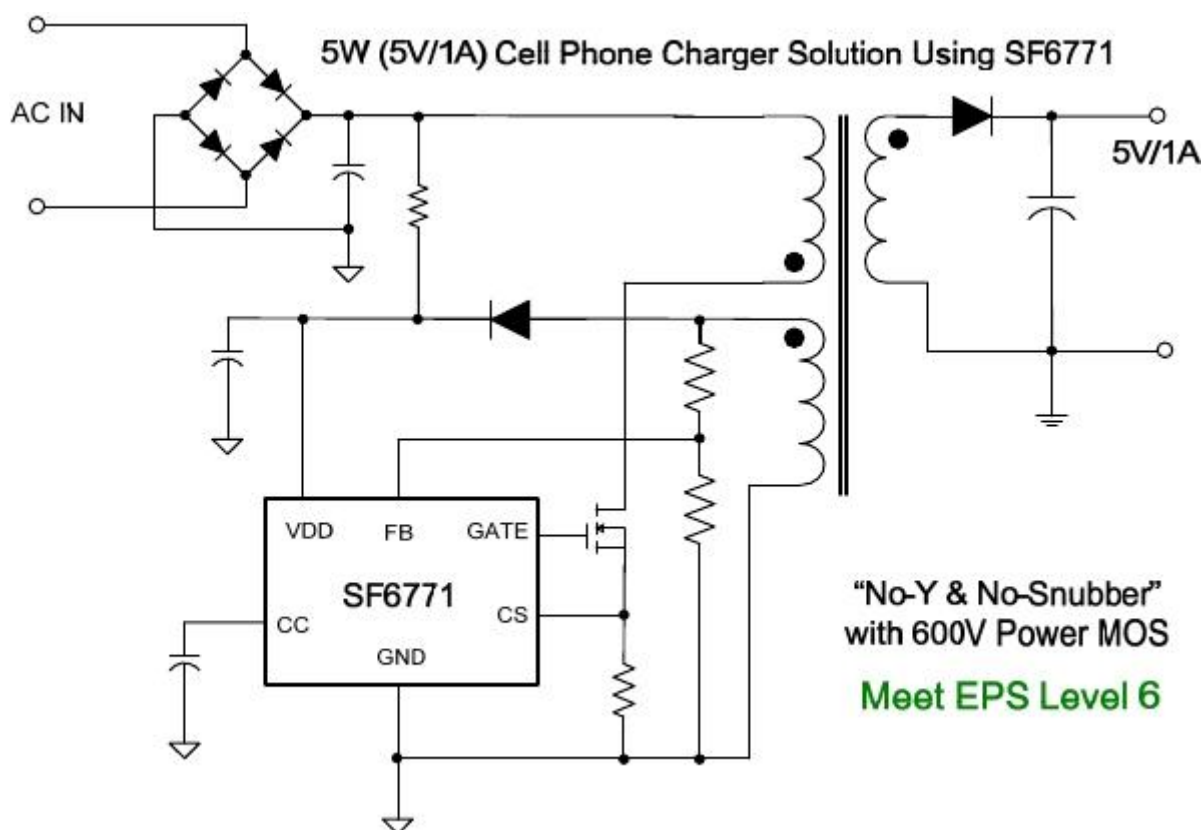
JTM6771 is a high performance, highly integrated QR (Quasi Resonant Mode) and Primary Side Regulation (PSR) controller for offline small power converter applications.

JTM6771 has proprietary **super-QR/PSR™** control for high efficiency and low EMI. The IC can meet EPS Level 6 energy standard easily. The IC can support “No-snubber & No-Y” design in 5W charger applications. The IC also has built-in cable drop compensation function, which can provide excellent CV performance.

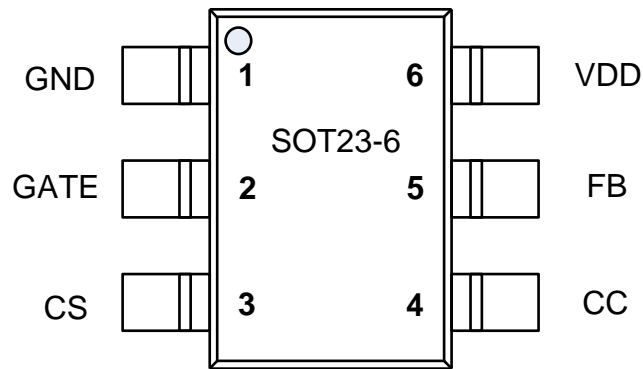
JTM6771 integrates functions and protections of Under Voltage Lockout (UVLO), VDD Over Voltage Protection (VDD OVP), Output Over Voltage Protection (Output OVP), Soft Start, Cycle-by-cycle Current Limiting (OCP), Pin Floating Protection, Gate Clamping, VDD Clamping.

JTM6771 is available in SOT23-6 package.

### TYPICAL APPLICATION



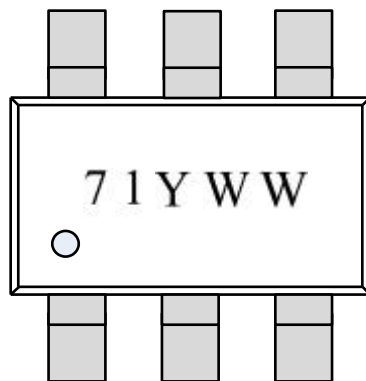
### Pin Configuration



### Ordering Information

Part Number	Top Mark	Package		Tape & Reel
SF6771LGT	.71YWW	SOT23-6	Green	Yes

### Marking Information



Dot: Pin1 Mark  
 71: Part number SF6771  
 YWW: Year & Week Code

### Pin Description

Pin Num	Pin Name	I/O	Description
1	GND	P	Ground
2	GATE	O	Totem-pole gate driver output to drive the external MOSFET.
3	CS	I	Current sense pin.
4	CC	O	Connect a capacitor between this pin and GND for CC regulation.
5	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.
6	VDD	P	IC power supply pin.