

***super-QR/PSR™* CV/CC Power Switch**

FEATURES

- ◆ **Meet EPS Level 6**
- ◆ **Built-in 600V Power MOJTMET**
- ◆ **Proprietary *super-QR/PSR*[™] (Quasi-Resonant & Primary Side Regulation) Control for High Efficiency and Low EMI**
- ◆ **Proprietary Cable Drop Compensation**
- ◆ **Max. Frequency Clamping to Limit Power MOJTMET Vds Spike @ Output Short Circuit**
- ◆ **Less than 70mW Standby Power**
- ◆ **±5% CC and CV Precision**
- ◆ **Multi-Mode Control**
- ◆ **Cycle-by-Cycle Current Limiting**
- ◆ **Leading Edge Blanking (LEB)**
- ◆ **Soft Start**
- ◆ **Output Over Voltage Protection**
- ◆ **VDD UVLO, OVP & Clamp**

APPLICATIONS

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

GENERAL DESCRIPTION

JTM6772 is a high performance, highly integrated QR (Quasi Resonant Mode) and Primary Side Regulation (PSR) power switch for offline small power converter applications.

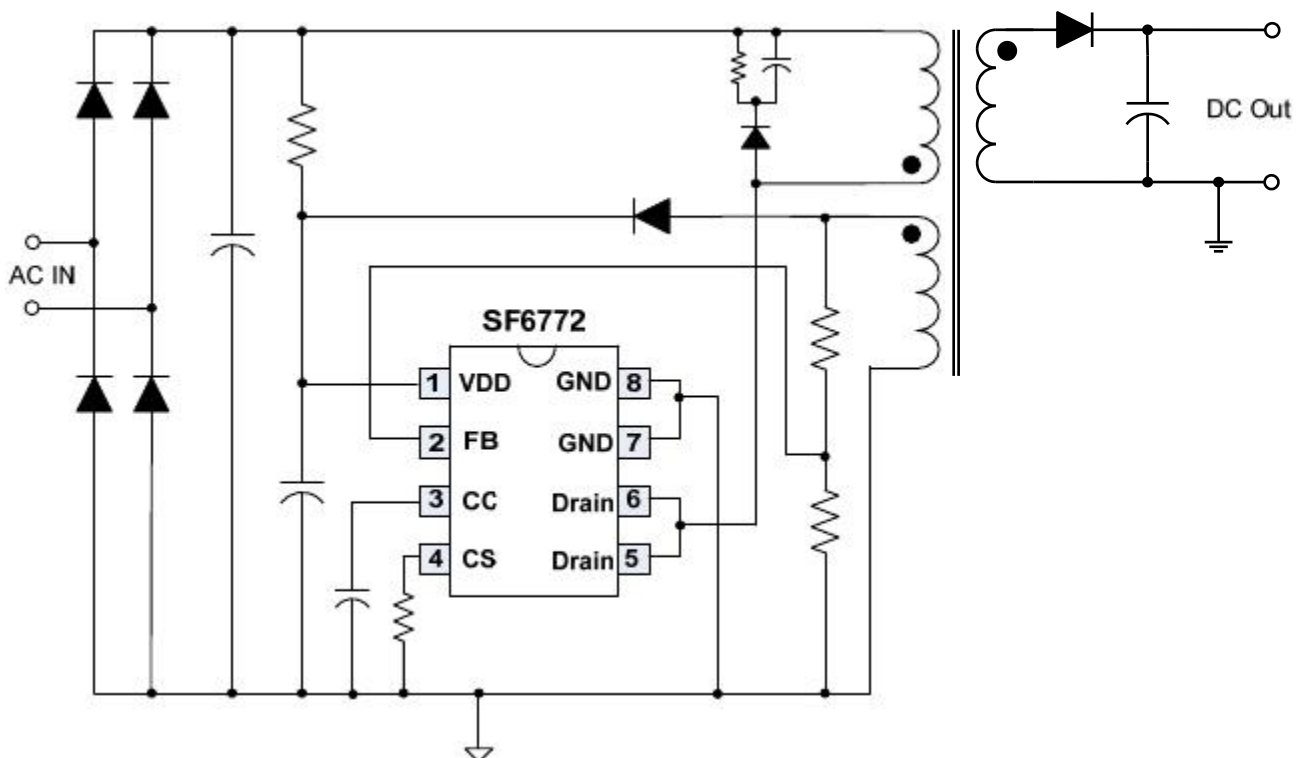
JTM6772 has proprietary **super-QR/PSR™** control for high efficiency and low EMI, which can ensure system to meet EPS Level 6 energy standard. The IC also has built-in cable drop compensation function to achieve excellent CV performance.

JTM6772 uses **Multi Mode Control** to improve efficiency and reliability and to decrease audio noise energy @ light loadings. JTM6772 also integrates the function of “**Max. Frequency Clamping @ Output Short Circuit**” to limit power MOSFET Vds spike when output short circuit occurs.

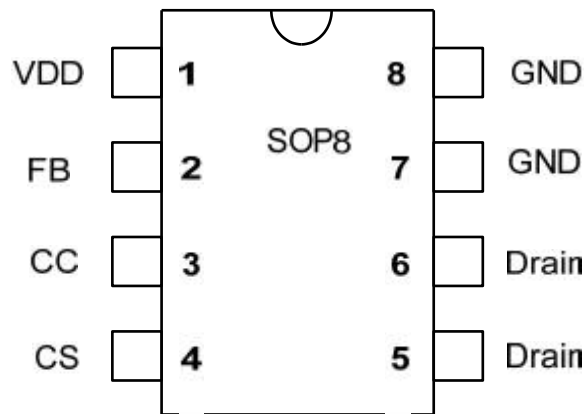
JTM6772 integrates functions and protections of FB Short Protection, Under Voltage Lockout (UVLO), VDD Over Voltage Protection (VDD OVP), Output Over Voltage Protection (Output OVP), Soft Start, Cycle-by-cycle Current Limiting (OCP), Pin Floating Protection, VDD Clamping.

JTM6772 is available in SOP8 package.

TYPICAL APPLICATION



Pin Configuration



Ordering Information

Part Number	Top Mark	Package		Tape & Reel
JTM6772SG	6772SG	SOP8	Green	
JTM6772SGT	JTM6772SG	SOP8	Green	Yes

Output Power Table⁽¹⁾

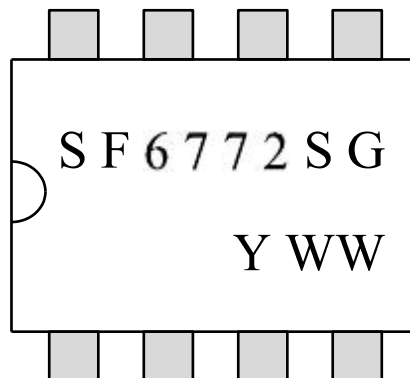
Part Number	230VAC $\pm 15\%$ ⁽²⁾	85-265VAC
	Adapter ⁽³⁾	Adapter ⁽³⁾
JTM6772	7.5W	5.5W

Note 1. The Max. output power is limited by junction temperature

Note 2. 230VAC or 100/115VAC with doublers

Note 3. Typical continuous power in a non-ventilated enclosed adapter with sufficient drain pattern as a heat sink at 50 °C ambient.

Marking Information



Pin Description

Pin Num	Pin Name	I/O	Description
1	VDD	P	IC power supply pin.
2	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.
3	CC	O	Connect a capacitor between this pin and GND for CC regulation.
4	CS	I	Current sense pin.
5-6	Drain	P	High voltage power MOJTMET drain connection.
7-8	GND	P	Ground