

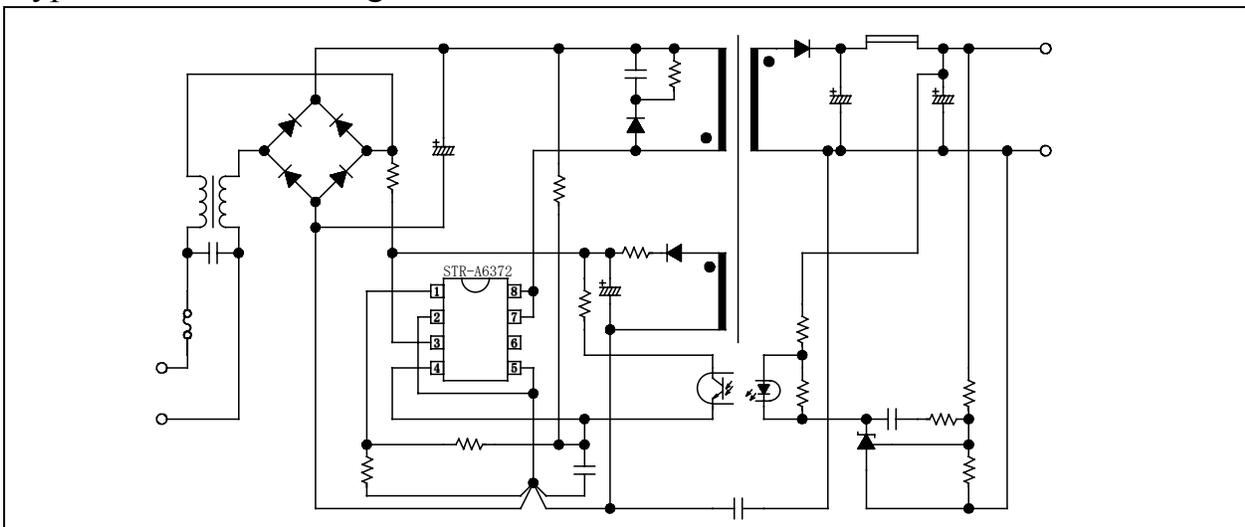
Features

- Oscillator is provided on the monolithic control with adopting On-Chip-Trimming technology.
- Small temperature characteristics variation by adopting a comparator to compensate for temperature on the control part.
- Low start-up circuit current (50uA max)
- Built-in Active Low-Pass Filter for stabilizing the operation in case of light load
- Avalanche energy guaranteed MOSFET with high VDSS
- The built-in power MOSFET simplifies the surge absorption circuit since the MOSFET guarantees the avalanche energy.
- No VDSS de-rating is required.
- Built-in constant voltage drive circuit
- Various kinds of protection functions
- Pulse-by-pulse Overcurrent Protection (OCP)
- Overvoltage Protection with latch mode (OVP)
- Thermal Shutdown with latch mode (TSD)

Descriptions

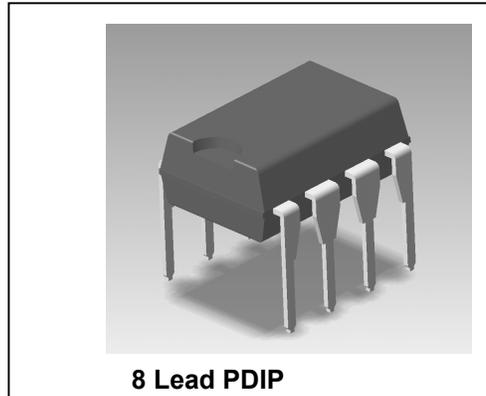
IRIS-A6372 is a hybrid IC consists from power MOSFET and a controller IC, designed for PRC fly-back converter type SMPS (Switching Mode Power Supply) applications, applicable for PRC operation for small power SMPS. This IC realizes downsizing and standardizing of a power supply system reducing external components count and simplifying the circuit designs. (Note). PRC is abbreviation of “Pulse Ratio Control” (On-width control with fixed OFF-time).

Typical Connection Diagram



INTEGRATED SWITCHER

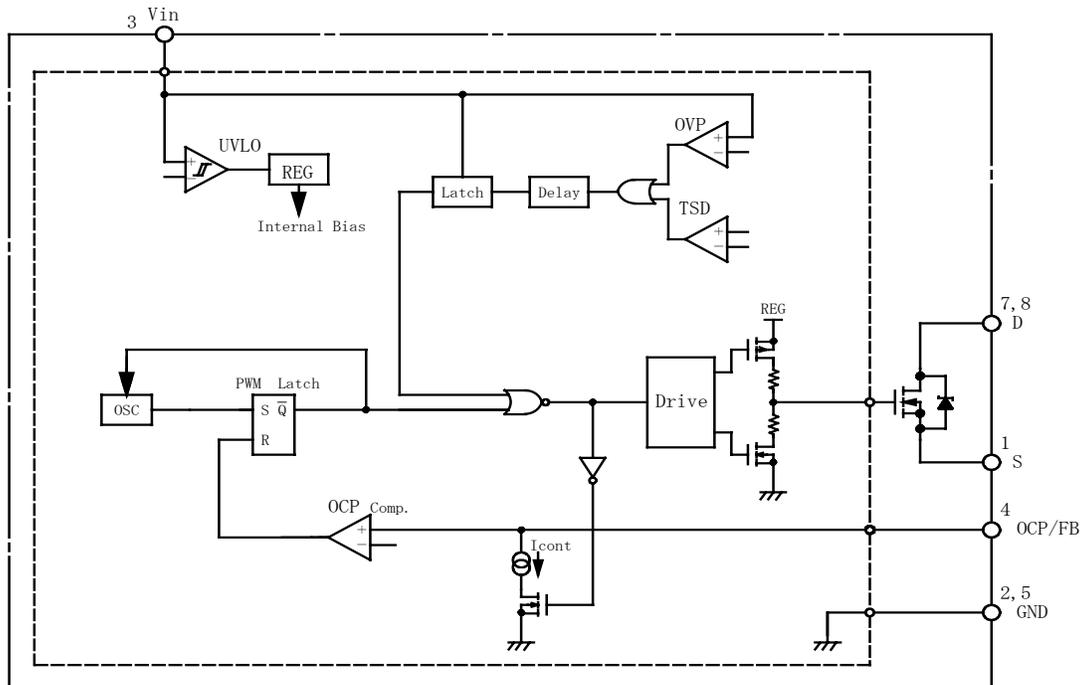
Package Outline



Key Specifications

Type	MOSFET VDSS(V)	RDS(ON) MAX	AC input(V)	Pout(W) Note 1
IRIS-A6372	900	7.7 Ω	230±15%	6
			85 to 264	4

Block Diagram



Lead Assignments

Pin Assignment (Top View)		Pin No.	Symbol	Description	Function
Source	1	8	D	Drain	MOSFET source
GND	2	7	D	Drain	Ground
Vin	3	6	N.C.	N.C.	Input of power supply for control circuit
OCP/FB	4	5	GND	GND	Input of overcurrent detection signal / constant voltage control signal
					Ground
					Not Connected
					MOSFET drain

Other Functions

O.V.P. – Overvoltage Protection Circuit

T.S.D. – Thermal Shutdown Circuit