The quasi resonant control IC for AC-DC converter Monolithic IC MM3661 Series

Outline

This IC is a quasi resonant control IC for AC-DC converter. This control helps to keep the EMI low by soft switching. This IC has a built-in start-up circuit that 500V tolerates voltage.

It helps to which improve start-up speed with the start-up circuit loss reduction. This IC contributes to the high efficiency at light-load by frequency decrease function with Burst operation. In addition, This IC is equipped with AC detection function and load detection function or a dedicated output terminal.

Thereby it is possible to realize a the start-stop control and output voltage control of the PFC circuit.

Features

- 1. Absolute maximum rating (HV pin)
- 2. Recommended operating condition (VDD pin)
- 3. PFC drive voltage (PSTB pin)
- 4. Operating current
- 5. Frequency
- 6. The range of temperature
- 7. Light load burst operation
- 8. Frequency decrease function
- 9. PFC circuit control function
- 10. Protective function

500V 10V to 24V VDD 0.72mA (TYP) 27.7kHz to 75kHz (TYP) -30°C to 125°C

AC detection, Load detection VDD overvoltage protection, external latch protection, soft-start function, overload protection, overcurrent protection, CS pin OPEN protection

Package

SOP-10A

Applications

- 1. AC adapters
- 2. Game console
- 3. TV
- 4. Printer
- 5. Various consumer electronics

Block Diagram



Pin Assignment



1	PSTB
2	PCHG
3	CS
4	FB
5	DMG
6	GND
7	GATE
8	VDD
9	NC
10	HV

Pin Description

Pin No.	Pin name	Functions
1	PSTB	PFC Circuit Drive
2	PCHG	PFC Circuit Output-Voltage Change
3	CS	Current Detection
4	FB	Feedback Detection
5	DMG	Zero Cross Detection
6	GND	GND
7	GATE	External MOS drive
8	VDD	Power supply
9	NC	No Connection
10	HV	High Voltage Startup

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Application Circuit



Characteristics



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