

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)	500V
2. Recommended operating condition (VDD pin)	10V to 24V
3. PFC drive voltage (PSTB pin)	VDD
4. Operating current	0.72mA (TYP)
5. Frequency	27.7kHz to 75kHz (TYP)
6. The range of temperature	−30°C to 125°C
7. Light load burst operation	
8. Frequency decrease function	
9. PFC circuit control function	AC detection, Load detection
10. Protective function	VDD overvoltage protection, external latch protection, soft-start function, overload protection, overcurrent protection, CS pin OPEN protection

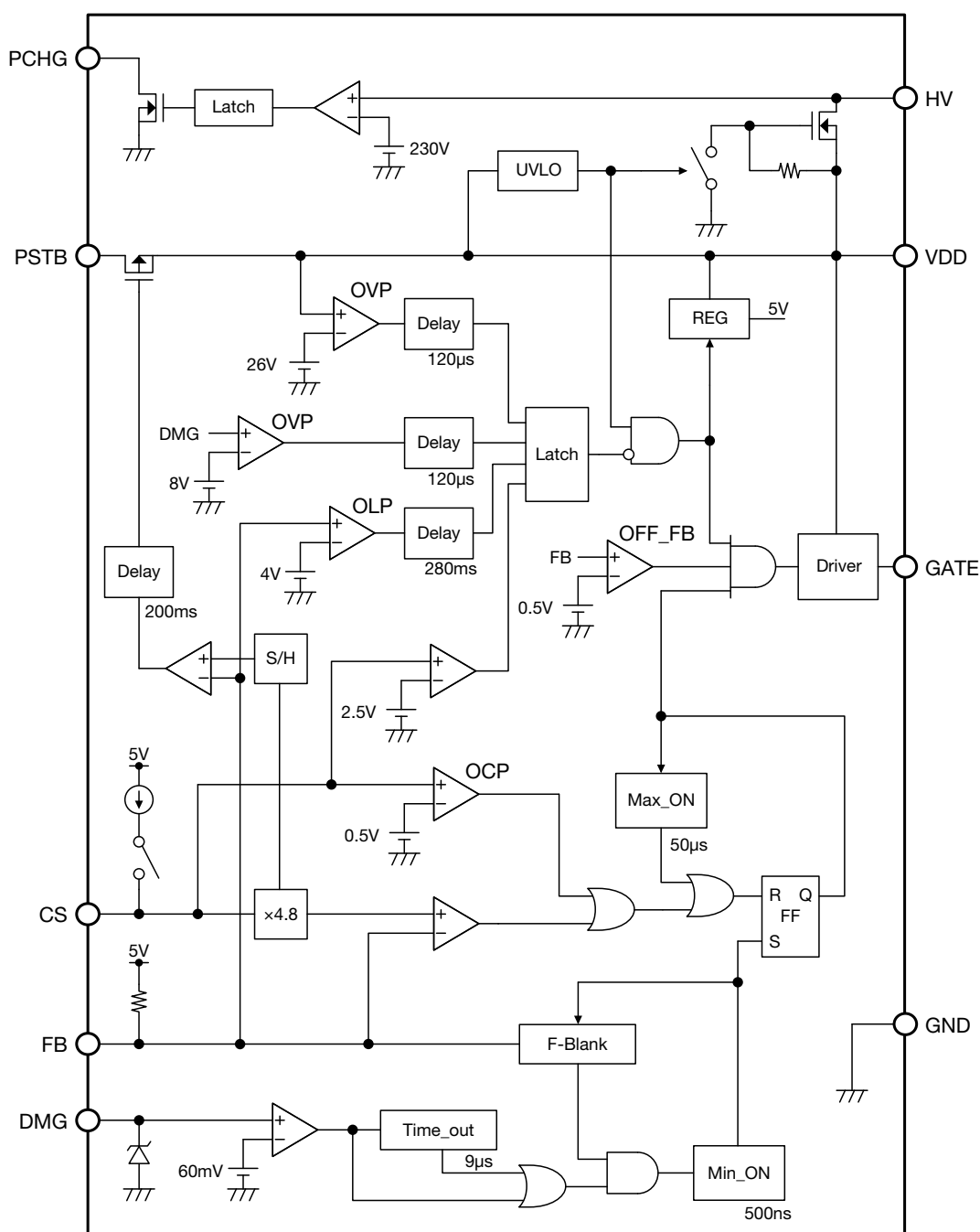
Package

SOP-10A

Applications

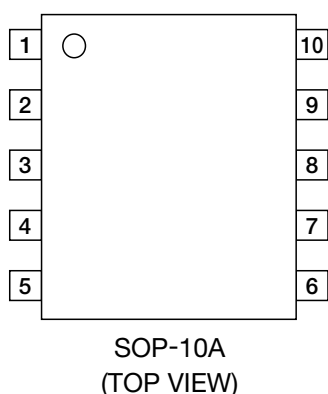
1. AC adapters
2. Game console
3. TV
4. Printer
5. Various consumer electronics

Block Diagram



- Any products mentioned in this catalog are subject to any modification in their appearance and others for improvements without prior notification.
- The details listed here are not a guarantee of the individual products at the time of ordering. When using the products, you will be asked to check their specifications.

Pin Assignment

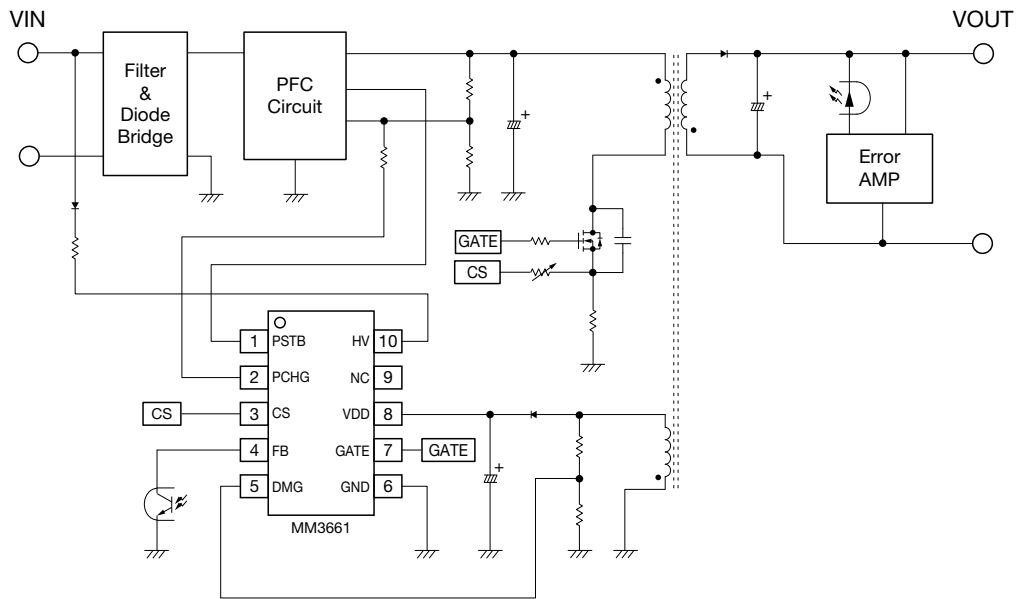


1	PSTB
2	PCHG
3	CS
4	FB
5	DMG
6	GND
7	GATE
8	VDD
9	NC
10	HV

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

Application Circuit



Characteristics

