

Secondary-side high speed controller for synchronous rectification in resonant half bridge topologies

Manufacturers	<a href="#">Infineon Technologies Corporation</a>
Package/Case	SOIC-8
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for IR11682STRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

IR11682 is a dual smart secondary-side rectifier driver IC designed to drive two N-Channel power MOSFETs used as synchronous rectifiers in resonant converter applications. The IC can control one or more paralleled N MOSFETs to emulate the behavior of Schottky diode rectifiers. The drain to source for each rectifier MOSFET voltage is sensed differentially to determine the level of the current and the power switch is turned ON and OFF in close proximity of the zero current transition. The anti shoot-through logic prevents both channels from turning on the power switches at the same time.

### Typical Applications

- LCD & PDP TV, Telecom SMPS, AC-DC adapters

## Features

Secondary-side high speed controller for synchronous rectification in resonant half bridge topologies

200V proprietary IC technology

Max 400KHz switching frequency

Anti-bounce logic and UVLO protection

4A peak turn off drive current

Micropower start-up and ultra low quiescent current

10.7V gate drive clamp

80ns turn-off propagation delay

Wide Vcc operating range

Direct sensing for both Synchronous Rectifiers

Cycle by Cycle MOT Check Circuit prevents multiple false trigger GATE pulses

Minimal component count, Simple design, and Lead-free

## Application

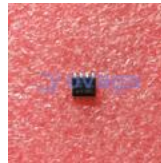
AC-DC

## Related Products



### [IRS2101SPBF](#)

Infineon Technologies Corporation  
SOIC-8



### [IRS2003STRPBF](#)

Infineon Technologies Corporation  
SOIC-8



### [IRS21864SPBF](#)

Infineon Technologies Corporation  
SOIC-14



### [IR3897MTRPBF](#)

Infineon Technologies Corporation  
PQFN 4 x 5



### [IR3898MTRPBF](#)

Infineon Technologies Corporation  
PQFN 4 x 5



### [IR21531SPBF](#)

Infineon Technologies Corporation  
SOIC-8



### [AUIRS2301STR](#)

Infineon Technologies Corporation  
SOIC-8



### [IR1168SPBF](#)

Infineon Technologies Corporation  
SOIC-8