

μPFC™

SOT-23 Boost PFC Control IC

Features

- Critical-conduction mode PFC control
- High PF and ultra-low THD
- Wide load and line range
- Regulated and programmable DC bus voltage
- No secondary winding required
- MOSFET cycle-by-cycle over-current protection
- DC bus over-voltage protection
- Low EMI gate drive
- Ultra-low start-up current
- 20.8 V internal zener clamp on VCC
- Excellent ESD and latch immunity
- RoHS compliant
- 5-pin SOT-23 package

Description

The IRS2505L is a control IC for boost-type PFC circuits operating in critical-conduction mode. The IC incorporates a free-running frequency oscillator with on- and off-time control of the boost power MOSFET without the need for a secondary winding. Also included in the design is over-voltage protection of the DC bus and cycle-by-cycle over-current protection of the power MOSFET. Micro-power start-up current and an internal 20.8 V zener clamp at VCC are provided to simplify the external VCC supply circuitry. ESD and latch immune CMOS technology enables a rugged monolithic IC construction.

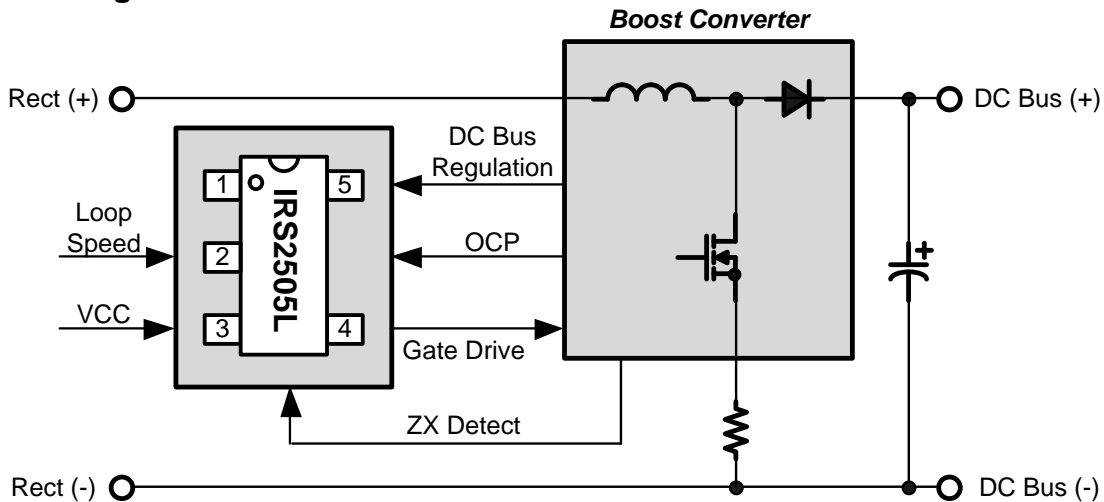
Applications

- Off-line power supply
- Electronic ballast
- LED power supply

Package Options



Application Diagram



Ordering Information

Base Part Number	Package Type	Standard Pack		Orderable Part Number
		Form	Quantity	
IRS2505LPBF	SOT23-5L	Tape and Reel	3000	IRS2505LTRPBF