International
IOR Rectifier

IRS2580DSPbF

"*COMBO8*" PFC + HALF-BRIDGE BALLAST IC

Features

- PFC, ballast control and half-bridge driver in one IC
- Critical-conduction mode boost-type PFC
- Internal VBUS sensing and regulation
- Internal PFC loop compensation
- Programmable PFC over-current
- Ignition voltage regulation (current or voltage control)
- Half-bridge non-ZVS protection
- Half-bridge over-current protection using low-side MOSFET Rds(on)
- Programmable preheat time
- Programmable preheat frequency
- Programmable ignition ramp time
- Programmable run frequency
- Voltage-controlled oscillator (VCO) analog input
- Latched EOL window comparator on VCC
- Internal EOL fault timer
- Fixed dead-time (1.7usec typ.)
- DC bus under-voltage reset
- Lamp insert auto-restart
- Micro-power start-up current
- Under-voltage lock-out mode
- Small 8-pin SOIC package
- Lead-free

Typical Application

- Electronic Ballast

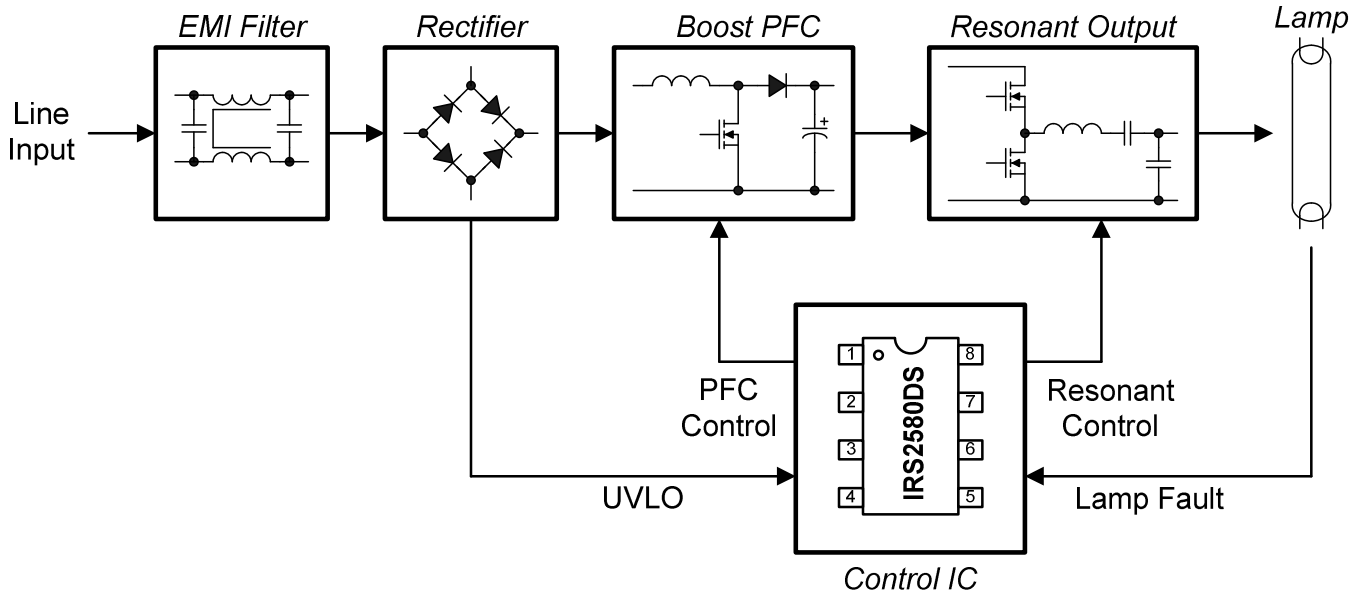
Product Summary

Topology	Boost + Half-Bridge
V_{OFFSET}	600 V
V_{OUT}	VCC
I_{O+} & I_{O-} (typical)	180 mA & 260 mA
Dead-time	1.7us

Package Options



Typical Application Block Diagram



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