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[International Rectifier \(Infineon Technologies Americas Corp.\)  
IRS2580DSTRPBF](#)

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# 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

#### Product Summary

|   |                     |
|---|---------------------|
| Topology                                    | Boost + Half-Bridge |
| V <sub>OFFSET</sub>                         | 600 V               |
| V <sub>OUT</sub>                            | VCC                 |
| I <sub>O+</sub> & I <sub>O-</sub> (typical) | 180 mA & 260 mA     |
| Dead-time                                   | 1.7us               |

#### Package Options



#### Typical Application

- Electronic Ballast

#### Typical Application Block Diagram

