The APR348 is a secondary-side MOSFET driver for synchronous rectification, which can effectively reduce the secondary-side rectifier power dissipation and provide a high-performance solution.

The APR348 can support continuous or discontinuous conduction mode (CCM and DCM) and quasi-resonant flyback operation based on a MOSFET operating on-time control technology.

This technology provides very fast turn-on and turn-off delay to reduce power loss and keep safe operation without adding any external components or circuitry.

The APR348 can configure into high-side or low-side application to fit various design requirements and can also provide high-performance solutions up to 20V output voltage application.

The APR348 is available in SOT26 package.

DIODES Advantage

The APR348 is a small-footprint, high-performance, cost-effective synchronous rectification solution for 5V - 20V power converters in portable, consumer and home automation applications.

- **Supports CCM, DCM and Quasi-Resonant Modes**
  APR348 provides very fast turn-on and turn-off delay to reduce power loss and keep safe operation under CCM mode.

- **Supports High-Side or Low-Side Application**
  APR348 power supply can be charged by VDET, fulfill high-side application without extra Vcc powered winding.

- **Available in SOT26 Package Using Fewer External Components**
  Saving BOM cost and layout size.

Applications

- USB PD
- Rapid Charger
- General AC/DC Adaptor
**Typical Application Circuit**

High-Side Application

Low-Side Application

**Product Portfolio**

<table>
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<tr>
<th>Part Number</th>
<th>VCC MAX (V)</th>
<th>Operating Current (μA)</th>
<th>Turn-Off Threshold (mV)</th>
<th>Drain Rating (V)</th>
<th>Mosfet $R_{DS(on)}$ (mΩ)</th>
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<td>3000</td>
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Further information: [https://www.diodes.com/part/APR348](https://www.diodes.com/part/APR348)