New Product Announcement
AP65111A & AP65211A

1.5A/2A Synchronous DC/DC Buck Converter

The AP65111A and AP65211A are current-mode synchronous buck converters providing high efficiency, excellent transient response and high DC output accuracy. Both incorporate control algorithms that improve efficiency at light loads (see overleaf).

The AP65111A and AP65211A operate at a fixed 500kHz switching frequency which provides a good balance between low power dissipation and small solution size form factor.

The AP65111A and AP65211A also features UVLO, OTP and OCP to protect the circuit.

The AP65111A and AP65211A are available in TSOT26 package providing a high power density leaded solution.

The Diodes Advantage

High efficiency synchronous DC-DC Buck converters across all output powers in TSOT26 covering wide range of POL applications

- Fixed frequency Current-mode converter with HLLE
  Improves transient response with increased efficiency in light-load conditions

- Multiple Protection Levels
  - Over-Current Protection
  - Over-Voltage Protection
  - Thermal Shutdown
  - UVLO
  Improves robustness of circuit and prevents pre-mature failure

- Small footprint leaded TSOT26 Package
  Saves PCB spacing and cost in an industry Standard pin-out

Applications

- Game Consoles
- TV and Monitors
- Set-top Box
- Network Systems
- Distributed Power Systems
- Home Audio
- Consumer Electronics
- Green Electronics

www.diodes.com
1.5A & 2A Current Mode DC-DC Buck Converters

AP65111A

AP65211A

Ordering information

<table>
<thead>
<tr>
<th>Device</th>
<th>Packaging</th>
<th>Reel Size</th>
<th>Quantity</th>
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<td>TSOT-26</td>
<td>7&quot;</td>
<td>3000</td>
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<td>AP65211AWU-7</td>
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Product Portfolio

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<tr>
<th>Part#</th>
<th>Min. Input Voltage (V)</th>
<th>Max. Input Voltage (V)</th>
<th>Output Voltage (V)</th>
<th>Output Current (A)</th>
<th>Frequency (kHz) typ</th>
<th>Efficiency (%)</th>
<th>Control Architecture</th>
<th>Quiescent Current (mA)</th>
<th>Gate Drive Output Current (mA)</th>
<th>Operating Temp Range (°C)</th>
<th>Enable Pin</th>
<th>Current Limit</th>
<th>Adjustable Output Voltage</th>
<th>Under Voltage Lockout</th>
<th>Programmable Soft start</th>
<th>Power Good</th>
<th>Available Packages</th>
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<td>18</td>
<td>0.8~12</td>
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