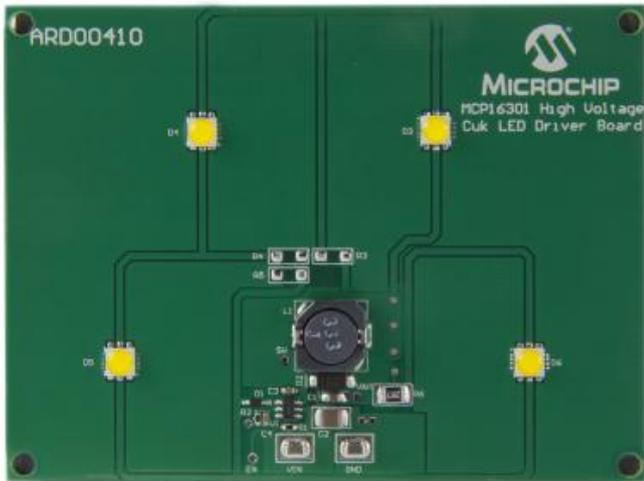


MCP16301 High-Voltage Single-Inductor Cuk LED Driver Demo Board

Part Number: ard00410



Features:

- 6V to 18V Input Voltage
- Input voltage can be lower or higher than the output voltage
- 300 mA output current
- Four 3W LEDs
- Dimming can be achieved by pulsing the enable pin on the MCP16301

Package Contents:

The MCP16301 High-Voltage Single-Inductor Cuk LED Driver Demo Board is designed to operate from a 6V to 18V input and regulate the output current to 300 mA. Test points for input power are provided to demonstrate the capability of the demo board over the entire range. The demo board was designed using small surface-mount components to show application size for a high-voltage single-inductor Cuk LED driver design. Compared with the traditional asynchronous buck converter, the MCP16301 High-Voltage Single-Inductor Cuk LED Driver Demo Board has an additional resistor and capacitor for compensation.