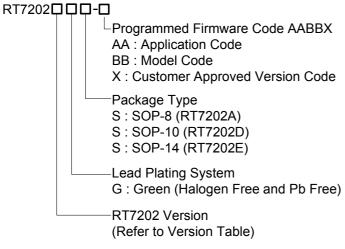
RICHTEK

Highly Integrated USB PD Type-C Controller for SMPS

General Description

The RT7202 is a secondary-side USB Power Delivery (USB PD) Type-C controller for high-efficiency off-line AC-DC converters. The RT7202 integrates an MCU as a policy manager to handle USB PD protocol, and also integrates a built-in Biphase Mark Coding (BMC) transceiver for USB PD or other proprietary protocols. A programmable reference voltage for an operational amplifier is included for voltage-loop regulation to achieve programmable constant-voltage (CV) regulation in high precision.

Ordering Information



Note :

Richtek products are :

- RoHS compliant and compatible with the current requirements of IPC/JEDEC J-STD-020.
- Suitable for use in SnPb or Pb-free soldering processes.

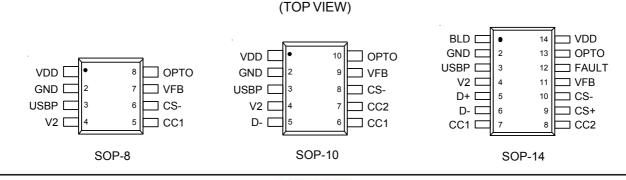
Features

- Protocols Supported
 - USB PD 2.0 and 3.0
 - Other Proprietary Protocols
- Highly Integrated
 - ► Embedded MCU with an Mask-ROM of 16kB, an OTP-ROM of 8kB, and an SRAM of 1.5kB
 - Embedded BMC Transceiver
 - Wide V_{DD} Operation Range : 3.6V to 20V
 - Built-in Shut Regulator for Constant-Voltage Regulation
 - Programmable Cable Compensation
 - BLD Pin for Quick Discharge of Output Capacitor (RT7202E)
 - VDD Pin for Quick Discharge of Output Capacitor (RT7202A/D)
 - USBP Pin for Direct Drive of External Blocking P-MOSFET
 - Power-Saving Mode in Standby Mode
- Protection
 - Adaptive Over-Voltage Protection
 - Adaptive Under-Voltage Protection
 - Firmware-Programmable Over-Current Protection

Applications

- USB PD Type-C Chargers/Adapters for Smart Phones, NBs, Tablets and All Other Electronics
- USB PD Extension Cores with Offline AC-DC Converters

Pin Configuration



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