PM6697H

VR13 single phase controller

VFQFPN20 3 x 3 mm

Features

- Single phase controller Intel® VR13™ compliant w/ 25 MHz SVID bus rev. 1.7
- High-performance STVCOT™ control loop
- Selectable PWM switching frequency, maximum current, DVID slew rate, load line
- External power MOSFET support
- Remote sense; 0.5% Vout accuracy with calibration
- Ultrasonic mode at light loads
- Programmable voltage positioning
- OV, UV and FB disconnection protection
- Package VFQFPN20 3 x 3 mm

Applications

- Power regulation for VR13 based Intel based microprocessors
- Power regulation for Denverton Intel based systems

Description

The PM6697H is a high-performance single phase controller designed to power Intel VR13 power rails. All required parameters are programmable through dedicated pinstrapping.

The STVCOT control loop provides fast load transient response minimizing and optimizing the output filter composition.

The device assures fast and independent protection against the load overcurrent, under/overvoltage and feedback disconnections. The device is available in a VFQFPN20 3 x 3 mm package.

Table 1. Device summary

Order code	Package	Packing
PM6697HTR	VFQFPN20 3 x 3 mm	Tape and reel

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Revision history

Table 2. Document revision history

Date	Revision	Changes
13-Mar-2017	1	Initial release.

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