

2.5A, 18V High Efficiency Synchronous Step-Down Converter

DESCRIPTION

The ETA1483B is a wide input range, high-efficiency, DC-to-DC step-down switching regulator, capable of delivering up to 2.5A of output current. Current mode PWM control allows the use of small external components, such as ceramic input and output caps, as well as small inductors, while still providing low output ripples. On top of the integrated internal synchronous rectifier that eliminates external Schottky diode, ETA1483B also employs a proprietary control scheme that switches the device into a power save mode during light load, thereby extending the range of high efficiency operation. Therefore, ETA1483B is a much superior solution in comparison to other competitions in terms of efficiency and cost. Cycle-by-cycle current limit provides output short-circuit protection and an input OVP function guards ETA1483B against possible input voltage surge. Overall, ETA1483B is a highly efficient and robust solution for DC-DC step-down applications that requires wide input ranges. ETA1483B is housed in a ESOP8 Package.

FEATURES

- **Wide Input Operating Range from 4.5V to 18V**
- **High Efficiency:**
 - Up to 90% at Light Load
 - Up to 95% at Heavy Load
- **Capable of Delivering 2.5A**
- **Input OVP at 20V**
- **No External Schottky Diode Needed**
- Current Mode control
- 0.923V Reference for Low Output voltages
- Logic Control Shutdown
- Thermal shutdown and UVLO
- Available in SOP8

APPLICATIONS

- LCD TVs
- Notebook computers
- FPGA power supplies
- LED drivers
- Car Charging Device

ORDERING INFORMATION

PART	PACKAGE PIN	TOP MARK
ETA1483BE8A-T	ESOP8	ETA1483B- Product Number YWWPL — Date Code

TYPICAL APPLICATION

