

2A, 18V High Efficiency Synchronous Step-Down Converter

DESCRIPTION

The ETA1483 is a wide input range, high-efficiency, DC-to-DC step-down switching regulator, capable of delivering up to 2A 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, ETA1483 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, ETA1483 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 ETA1483 against possible input voltage surge. Overall, ETA1483 is a highly efficient and robust solution for DC-DC step-down applications that requires wide input ranges. ETA1483 is housed in a SOP8 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 2A**
- **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
ETA1483S8A-T	SOP8	ETA1483-Product Number
ETA1483S8A-U		YWWPL— Date Code

TYPICAL APPLICATION

