Product Overview

KA7500C: PWM Controller programmable frequency upto 300khz

For complete documentation, see the data sheet.

The KA7500C is used for the control circuit of the pulse-width modulation switching regulator. The KA7500C consists of 5V reference voltage circuit, two error amplifiers, flip flop, an output control circuit, a PWM comparator, a dead-time comparator and an oscillator. This device can be operated in the switching frequency of 1kHz to 300kHz. The precision of voltage reference (V_{REF}) is improved up to ±1% with trimming. This provides a better output voltage regulation. The operating temperature range is -25°C - +85°C

Features

- Internal Regulator Provides a Stable 5V Reference Supply Trimmed to ±1% Accuracy
- Uncommitted Output TR for 200mA Sink or Source Current
- Output Control for Push-Pull or Single-Ended Operation
- Variable Duty Cycle by Dead-Time Control (Pin 4) Complete PWM Control Circuit
- On-Chip Oscillator with Master or Slave Operation
- Internal Circuit Prohibits Double Pulse at Either Output

Applications

- Other Consumer Electronics

Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V_{CC} Min (V)	V_{CC} Max (V)	f_{SW} Typ (kHz)	Package Type
KA7500C	Pb-free Halide free	Active							PDIP-16
KA7500CDTF	Pb-free	Active							SOIC16 N

For more information please contact your local sales support at www.onsemi.com.

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