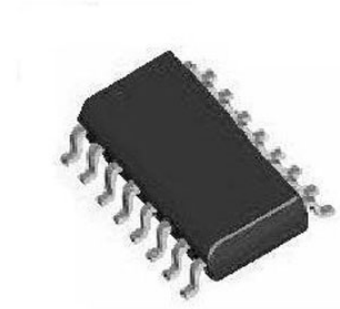


Precision Switchmode Pulse Width Modulation Control Circuit, Voltage Mode PWM Controllers 40kHz 200mA PWM w/48% Duty Cycle Max

|               |                                       |
|---------------|---------------------------------------|
| Manufacturers | <a href="#">ON Semiconductor, LLC</a> |
| Package/Case  | SOIC-16                               |
| Product Type  | Power Management ICs                  |
| RoHS          | Rohs                                  |
| Lifecycle     |                                       |



Images are for reference only

Please submit RFQ for TL594CDG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The TL594 device incorporates all the functions required in the construction of a pulse-width-modulation (PWM) control circuit on a single chip. Designed primarily for power-supply control, this device offers the systems engineer the flexibility to tailor the power-supply control circuitry to a specific application.

The TL594 device contains two error amplifiers, an on-chip adjustable oscillator, a dead-time control (DTC) comparator, a pulse-steering control flip-flop, a 5-V regulator with a precision of 1%, an undervoltage lockout control circuit, and output control circuitry.

The uncommitted output transistors provide either common-emitter or emitter-follower output capability. Each device provides for push-pull or single-ended output operation, with selection by means of the output-control function. The architecture of these devices prohibits the possibility of either output being pulsed twice during push-pull operation. The undervoltage lockout control circuit locks the outputs off until the internal circuitry is operational.

## Features

- Complete PWM Power-Control Circuitry
- Uncommitted Outputs for 200-mA Sink or Source Current
- Output Control Selects Single-Ended or Push-Pull Operation
- Internal Circuitry Prohibits Double Pulse at Either Output
- Variable Dead Time Provides Control Over Total Range
- Internal Regulator Provides a Stable 5-V Reference Supply Trimmed to 1%
- Circuit Architecture Allows Easy Synchronization
- Undervoltage Lockout (UVLO) for Low-VCC Conditions

## Application

ONSEMI

## Related Products



### [TLV431CSN1TIG](#)

ON Semiconductor, LLC  
SOT-23-3



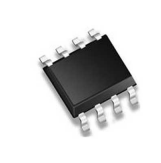
### [TL431AIDR2G](#)

ON Semiconductor, LLC  
SOIC-8



### [TL431BVDG](#)

ON Semiconductor, LLC  
SOIC-8



### [TL431CDR2G](#)

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### [TLV431BSNT1G](#)

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