

## REGULATING PULSE WIDTH MODULATOR

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	DIP-18
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for SG3526BN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The SG1526B is a high-performance pulse width modulator for switching power supplies which offers improved functional and electrical characteristics over the industry-standard SG1526. A direct pin-for-pin replacement for the earlier device with all its features, it incorporates the following enhancements: a bandgap reference circuit for improved regulation and drift characteristics, improved under voltage lockout, lower temperature coefficients on oscillator frequency and current-sense threshold, tighter tolerance on soft start time, much faster SHUTDOWN response, improved double-pulse suppression logic for higher speed operation, and an improved output driver design with low shoot-through current, and faster rise and fall times. This versatile device can be used to implement single-ended or push-pull switching regulators of either polarity, both transformer-less and transformer-coupled. The SG1526B is specified for operation over the full military ambient temperature range of -55°C to 150°C.

The SG2526B is characterized for the industrial range of -25°C to 150°C, and the SG3526B is designed for the commercial range of 0°C to 125°C.

## Features

8V to 35V Operation

5V Reference Trimmed to  $\pm 1\%$

1Hz to 350kHz Oscillator Range

Dual 100mA Source/Sink Outputs

Digital Current Limiting

Double Pulse Suppression

Programmable Deadtime

Undervoltage Lockout

Single Pulse Metering

Programmable Soft-start

Wide Current Limit Common Mode

Range TTL/CMOS Compatible Logic

Ports Symmetry Correction Capability Guaranteed 6 Unit Synchronization

8V to 35V Operation

5V Reference Trimmed to  $\pm 1\%$

1Hz to 350kHz Oscillator Range

Dual 100mA Source/Sink Outputs

Digital Current Limiting

Double Pulse Suppression

Programmable Deadtime

Undervoltage Lockout

Single Pulse Metering

Programmable Soft-start

Wide Current Limit Common Mode

Range TTL/CMOS Compatible Logic

Ports Symmetry Correction Capability Guaranteed 6 Unit Synchronization



### Related Products



#### [SG1525AJ](#)

Microchip Technology, Inc  
DIP-16



#### [SG2524BN](#)

Microchip Technology, Inc  
PDIP-16



#### [SG3526BDW](#)

Microchip Technology, Inc  
SOP-18



#### [SG3524D](#)

Microchip Technology, Inc  
SOIC-16



[SG1524BJ](#)

Microchip Technology, Inc  
CDIP-16



[SG3524BN](#)

Microchip Technology, Inc  
DIP-16



[SG1526BJ](#)

Microchip Technology, Inc  
DIP-18



[SG2526BDW](#)

Microchip Technology, Inc  
SOP-18