SG3845M

Data Sheet

Current Mode PWMs; Package: DIP;

Manufacturers	Microchip Technology, Inc
Package/Case	DIP8
Product Type	Power Management ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for SG3845M or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The SG1844/45 family of control ICs provides all the required features to implement off-line Fixed Frequency, Current-mode switching power supplies with a minimum number of external components. Current-mode architecture demonstrates improved line regulation, improved load regulation, pulse-by pulse current limiting and inherent protection of the power supply output switch.The Bandgap reference is trimmed to ±1% over temperature. Oscillator discharge current is trimmed to less than ±10%. The SG1844/45 has under-voltage lockout, current-limiting circuitry and start-up current of less than 1mA. The totem-pole output is optimized to drive the gate of a power MOSFET. The output is low in the off state to provide direct interface to an Nchannel device. Both operate up to a maximum duty cycle range of zero to <50% due to an internal toggle flip-flop which blanks the output off every other clock cycle. The SG1844/45 is specified for operation over the full military ambient temperature range of -55°C to 125°C. The SG3844/45 is designed for the commercial range of 0°C to 70°C.

Features

Optimized for Off-Line Control

Low Start-Up Current (<1mA)

Automatic Feed Forward Compensation

Trimmed Oscillator

Discharge Current

Pulse-By-Pulse Current Limiting

Enhanced Load Response Characteristics

Undervoltage Lockout with 6V Hysteresis (SG1844 only)

Double Pulse Suppression

High-Current Totem-Pole Output

Internally Trimmed Bandgap Reference

500kHz Operation

Under-voltage Lockout: SG1844 - 16 Volts, SG1845 - 8.4 Volts

Low Shoot-through Current <75mA Over Temperature

Related Products

SG1525AJ

Microchip Technology, Inc

DIP-16

SG2524BN

Microchip Technology, Inc

PDIP-16

SG3526BN

Microchip Technology, Inc

DIP-18

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