UC3842BDG

Data Sheet

PWM Controller, 25V-12V supply, 250 kHz, 13.4V/12mA out, SOIC-14

Manufacturers	ON Semiconductor, LLC
Package/Case	SOIC-14
Product Type	Power Management ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for UC3842BDG or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

The UC284xB family of control ICs provides the necessary features to implement off-line or DC to DC fixed frequency current mode control schemes with a minimal external parts count. Internally implemented circuits include a trimmed oscillator for precise DUTY CYCLE CONTROL under voltage lockout featuring start-up current less than 0.5mA, a precision reference trimmed for accuracy at the error amp input, logic to insure latched operation, a PWM comparator which also provides current limit control, and a totem pole output stage designed to source or sink high peak current. The output stage, suitable for driving N-Channel MOSFETs, is low in the off-state.

Differences between members of this family are the under-voltage lockout thresholds and maximum duty cycle ranges. The UC2842B and UC2844B have UVLO thresholds of 16V (on) and 10V (off), ideally suited off-line applications The corresponding thresholds for the UC2843B and UC2845B are 8.5V and 7.9V. The UC2842B and UC2843B can operate to duty cycles approaching 100%. A range of the zero to < 50 % is obtained by the UC2844B and UC2845B by the addition of an internal toggle flip flop which blanks the output off every other clock cycle.

Features

LOWSTART-UPANDOPERATINGCURRENT

UNDERVOLTAGELOCKOUTWITHHYSTERESIS

INTERNALLYTRIMMEDREFERENCEWITHUNDERVOLTAGELOCKOUT

CURRENTLIMITING

TRIMMEDOSCILLATORFORPRECISEFREQUENCYCONTROL

CURRENTMODEOPERATIONTO500kHz

OSCILLATORFREQUENCYGUARANTEEDAT250kHz

LATCHINGPWMFORCYCLE-BY-CYCLE

HIGHCURRENTTOTEMPOLEOUTPUT

AUTOMATICFEEDFORWARDCOMPENSATION

Application

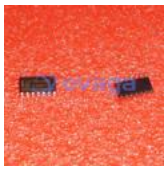
ONSEMI

Related Products

UC3843BVD1R2G

ON Semiconductor, LLC

SOP-8



UC3844BDG

ON Semiconductor, LLC

SOIC-14

UC2843BD1R2G

ON Semiconductor, LLC

SOIC-8

UC3845BVD1R2G

ON Semiconductor, LLC

SOP-8(3.9)

UC3843BDR2G

ON Semiconductor, LLC

SOIC-14

UC3843BD1G

ON Semiconductor, LLC

SOP-8

UC3844BVDG

ON Semiconductor, LLC

SOIC-14

UC3843BVDG

ON Semiconductor, LLC

SOIC-14