UCC2806DW

Current Mode PWM Controller 500mA 52kHz 16-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP16
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The UCC3806 family of BiCMOS PWM controllers offers exceptionally improved performance with a familiar architecture. With the same block diagram and pinout of the popular UC3846 series, the UCC3806 line features increased switching frequency capability while greatly reducing the bias current used within the device. With a typical startup current of 50µA and a well defined voltage threshold for turn-on, these devices are favored for applications ranging from off-line power supplies to battery operated portable equipment. Dual high current, MOSFET driving outputs and a fast current sense loop further enhance device versatility.

All the benefits of current mode control including simpler loop closing, voltage feed-forward, parallelability with current sharing, pulse-by-pulse current limiting, and push-pull symmetry correction are readily achievable with the UCC3806 series.

These devices are available with multiple package options for both through-hole and surface mount applications; and in commercial, industrial, and military temperature ranges.

The UCC3806 is specified for operation from –55°C to +125°C, the UCC2806 is specified for operation from –40°C to +85°C, and the UCC3806 is specified for operation from 0°C to +70°C.

Key Features

BiCMOS Version of UC3846 Families

1.4-mA Maximum Operating Current

100-µA Maximum Startup Current

±0.5-A Peak Output Current

125-ns Circuit Delay

Easier Parallelability

Improved Benefits of Current Mode Control

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Recommended For You

UCC28064ADR

Texas Instruments, Inc

SOP16

UC3637N

Texas Instruments, Inc

DIP-18

UCC27517DBVR

Texas Instruments, Inc

SOT23-5

UCC2946TPWRQ1

Texas Instruments, Inc

TSSOP8

UCC28730QDRQ1

Texas Instruments, Inc

SOP7

UCC21222QDRQ1

Texas Instruments, Inc

SOP16

UCD9090QRGZRQ1

Texas Instruments, Inc

VQFN-48

UCC27531QDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC27511AQDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC2803QDRQ1

Texas Instruments, Inc

SOP8

UCC28951QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC21320QDWKRQ1

Texas Instruments, Inc

SOIC-14

UCC27322QDGNRQ1	**UCC28950QPWRQ1**	**UCC2808AQDR-2Q1**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
HVSSOP-8	TSSOP24	SOP8