UCC2813D-4

Current Mode PWM Controller 1A 1000kHz 8-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP-8
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The UCC3813-x device family of high-speed, low-power integrated circuits contains all of the control and drive components required for off-line and DC-to-DC fixed-frequency current-mode switching power supplies with minimal parts count.

These devices have the same pin configuration as the UC384x device family, and also offer the added features of internal full-cycle soft start and internal leading-edge blanking of the current-sense input.

The UCC3813-x device family offers a variety of package options, temperature-range options, choice of maximum duty cycle, and choice of critical voltage levels. Devices with lower reference voltage such as the UCC3813-3 and UCC3813-5 fit best into battery operated systems, while the higher reference and the higher UVLO hysteresis of the UCC3813-2 device and UCC3813-4 device make these ideal choices for use in off-line power supplies.

The UCC2813-x device series is specified for operation from –40°C to 85°C and the UCC3813-x device series is specified for operation from 0°C to 70°C.

Key Features

100-µA Typical Starting Supply Current

500-µA Typical Operating Supply Current

Operation to 1 MHz

Internal Soft Start

Internal Fault Soft Start

Internal Leading-Edge Blanking of the Current-Sense Signal

1-A Totem-Pole Output

70-ns Typical Response from Current-Sense to Gate-Drive Output

1.5% Tolerance Voltage Reference

Same Pinout as the UCC3802 Device, UC3842 Device, and UC3842A Device Families

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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

Texas Instruments, Inc

HVSSOP-8

UCC28950QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC2808AQDR-2Q1

Texas Instruments, Inc

SOP8