

## Low Power Economy BiCMOS Current Mode PWM

### FEATURES

- 100 $\mu$ A Typical Starting Supply Current
- 500 $\mu$ A Typical Operating Supply Current
- Operation to 1MHz
- Internal Soft Start
- Internal Fault Soft Start
- Internal Leading-Edge Blanking of the Current Sense Signal
- 1 Amp Totem-Pole Output
- 70ns Typical Response from Current-Sense to Gate Drive Output
- 1.5% Tolerance Voltage Reference
- Same Pinout as UCC3802, UC3842, and UC3842A

### DESCRIPTION

The UCC3813-0/-1/-2/-3/-4/-5 family of high-speed, low-power integrated circuits contain 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 UC3842/3/4/5 family, and also offer the added features of internal full-cycle soft start and internal leading-edge blanking of the current-sense input.

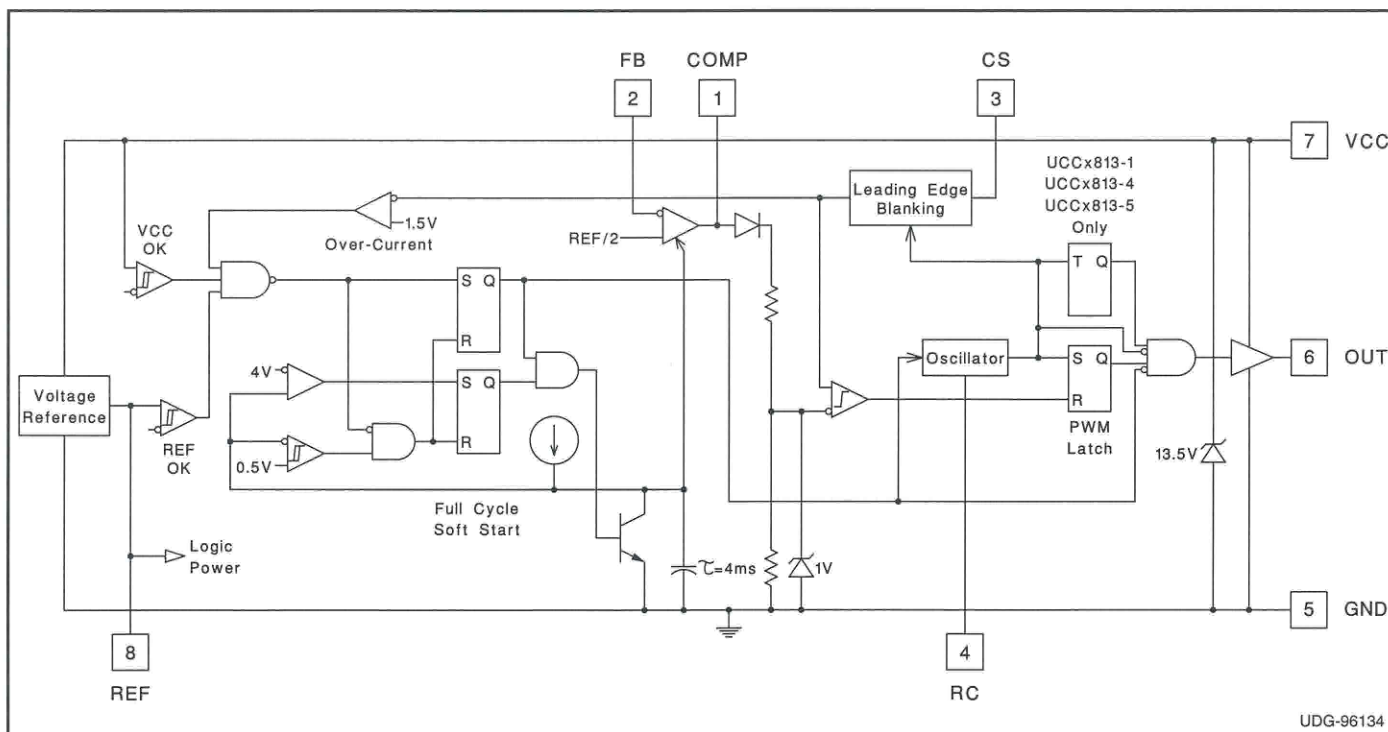
The UCC3813-0/-1/-2/-3/-4/-5 family offers a variety of package options, temperature range options, choice of maximum duty cycle, and choice of critical voltage levels. Lower reference parts such as the UCC3813-3 and UCC3813-5 fit best into battery operated systems, while the higher reference and the higher UVLO hysteresis of the UCC3813-2 and UCC3813-4 make these ideal choices for use in off-line power supplies.

The UCC2813-x series is specified for operation from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and the UCC3813-x series is specified for operation from  $0^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .

### ORDERING INFORMATION

| Part Number | Maximum Duty Cycle | Reference Voltage | Turn-On Threshold | Turn-Off Threshold |
|-------------|--------------------|-------------------|-------------------|--------------------|
| UCCx813-0   | 100%               | 5V                | 7.2V              | 6.9V               |
| UCCx813-1   | 50%                | 5V                | 9.4V              | 7.4V               |
| UCCx813-2   | 100%               | 5V                | 12.5V             | 8.3V               |
| UCCx813-3   | 100%               | 4V                | 4.1V              | 3.6V               |
| UCCx813-4   | 50%                | 5V                | 12.5V             | 8.3V               |
| UCCx813-5   | 50%                | 4V                | 4.1V              | 3.6V               |

### BLOCK DIAGRAM



## ABSOLUTE MAXIMUM RATINGS (Note 1)

VCC Voltage (Note 2) ..... 12.0V  
VCC Current ..... 30.0mA  
OUT Current .....  $\pm 1.0$ A  
OUT Energy (Capacitive Load) ..... 20.0 $\mu$ J  
Analog Inputs (FB, CS, RC, COMP) .....  
..... -0.3V to the lesser of 6.3V or VCC + 0.3V  
Power Dissipation at  $T_A < +25^\circ\text{C}$  (N Package) ..... 1.0W  
Power Dissipation at  $T_A < +25^\circ\text{C}$  (D Package) ..... 0.65W  
Storage Temperature .....  $-65^\circ\text{C}$  to  $+150^\circ\text{C}$   
Junction Temperature .....  $-55^\circ\text{C}$  to  $+150^\circ\text{C}$

**Note 1:** All voltages are with respect to GND. All currents are positive into the specified terminal. Consult Unitrode Integrated Circuits databook for information regarding thermal specifications and limitations of packages.

**Note 2:** In normal operation VCC is powered through a current limiting resistor. Absolute maximum of 12V applies when VCC is driven from a low impedance source such that ICC does not exceed 30mA. The resistor should be sized so that the VCC voltage under operating conditions is below 12V but above the turn off threshold.

|         | TEMPERATURE RANGE                          | PACKAGES |
|---------|--------------------------------------------|----------|
| UCC2813 | $-40^\circ\text{C}$ TO $+85^\circ\text{C}$ | N, D, PW |
| UCC3813 | $0^\circ\text{C}$ TO $+70^\circ\text{C}$   | N, D, PW |

## ORDERING INFORMATION

UCC  813  -   
 ↑                    ↑                    ↑  
 PRODUCT OPTION  
 PACKAGE  
 TEMPERATURE RANGE

| PACKAGE   | $\theta_{JA}$ | $\theta_{JC}$ | COMMENTS                          |
|-----------|---------------|---------------|-----------------------------------|
| DIL-8N    | 110           | 50            |                                   |
| TSSOP-8PW | 232-257       | 32            | Modeled using 0.3 mm trace widths |
| SOIC-8D   | 40-70         | 22            |                                   |

(1) Specified  $\theta_{JA}$  (junction to ambient) is for devices mounted to 5-in<sup>2</sup> FR4 PC board with one ounce copper where noted. When resistance range is given, lower values are for 5-in<sup>2</sup> aluminum PC board. Test PWB was 0.062 in thick and typically used 0.635-mm trace widths for power packages and 1.3-mm trace widths for non-power packages with a 100 x 100-mil probe land area at the end of each trace.

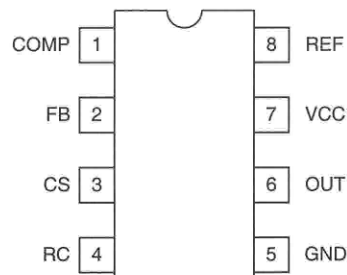
(2)  $\theta_{JC}$  data values stated were derived from MIL-STD-1835B. MIL-STD-1835B states: The baseline values shown are worst case (mean + 2s) for a 60 x 60 mil microcircuit device silicon die and applicable for devices with die sizes up to 14400 square mils. For device die sizes greater than 14400 square mils use the following values; dual-in-line, 11°C/W; flat pack, 10°C/W; pin grid array, 10°C/W.

(3) Modeled data. If value range given for  $\theta_{JA}$ , lower value is for 3 x 3 inch. One ounce internal copper ground plane, higher value is for 1 x 1 inch ground plane. All model data assumes only one trace for each non-fused lead.

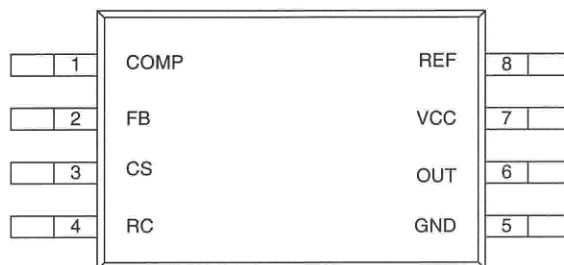
(4) Specified thermal resistance is  $\theta_{JL}$  (junction to lead) where noted.

## CONNECTION DIAGRAMS

### DIL-8 or SOIC-8 (TOP VIEW) N or D PACKAGE



### TSSOP-8 (TOP VIEW) PW PACKAGE



**ELECTRICAL CHARACTERISTICS** Unless otherwise stated, these specifications apply for  $-40^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$  for UCC2813-x;  $0^{\circ}\text{C} \leq T_A \leq +70^{\circ}\text{C}$  for UCC3813-x;  $V_{CC} = 10\text{V}$  (Note 3);  $R_T = 100\text{k}$  from REF to RC;  $C_T = 330\text{pF}$  from RC to GND;  $0.1\mu\text{F}$  capacitor from VCC to GND;  $0.1\mu\text{F}$  capacitor from VREF to GND.  $T_A = T_J$ .

| PARAMETER               | TEST CONDITIONS                                       | UCC2813-x<br>UCC3813-x |      |       | UNITS |
|-------------------------|-------------------------------------------------------|------------------------|------|-------|-------|
|                         |                                                       | MIN                    | TYP  | MAX   |       |
| Reference Section       |                                                       |                        |      |       |       |
| Output Voltage          | T <sub>J</sub> = +25°C, I = 0.2mA, UCCx813-0/-1/-2/-4 | 4.925                  | 5.00 | 5.075 | V     |
|                         | T <sub>J</sub> = +25°C, I = 0.2mA, UCCx813-3/-5       | 3.94                   | 4.00 | 4.06  | V     |
| Load Regulation         | 0.2mA < I < 5mA                                       |                        | 10   | 30    | mV    |
| Total Variation         | UCCx813 -0-1/-2/-4 (Note 7)                           | 4.84                   | 5.00 | 5.10  | V     |
|                         | UCCx813-5 (Note 7)                                    | 3.84                   | 4.00 | 4.08  | V     |
| Output Noise Voltage    | 10Hz ≤ f ≤ 10kHz, T <sub>J</sub> = +25°C (Note 9)     |                        | 70   |       | μV    |
| Long Term Stability     | T <sub>A</sub> = +125°C, 1000 Hours (Note 9)          |                        | 5    |       | mV    |
| Output Short Circuit    |                                                       | −5                     |      | −35   | mA    |
| Oscillator Section      |                                                       |                        |      |       |       |
| Oscillator Frequency    | UCCx813-0/-1/-2/-4 (Note 4)                           | 40                     | 46   | 52    | kHz   |
|                         | UCCx813-3/-5 (Note 4)                                 | 26                     | 31   | 36    | kHz   |
| Temperature Stability   | (Note 9)                                              |                        | 2.5  |       | %     |
| Amplitude Peak-to-Peak  |                                                       | 2.25                   | 2.40 | 2.55  | V     |
| Oscillator Peak Voltage |                                                       |                        | 2.45 |       | V     |
| Error Amplifier Section |                                                       |                        |      |       |       |
| Input Voltage           | COMP = 2.5V; UCCx813-0/-1/-2/-4                       | 2.42                   | 2.50 | 2.56  | V     |
|                         | COMP = 2.0V; UCCx813-3/-5                             | 1.92                   | 2.0  | 2.05  | V     |
| Input Bias Current      |                                                       | −2                     |      | 2     | μA    |
| Open Loop Voltage Gain  |                                                       | 60                     | 80   |       | dB    |
| COMP Sink Current       | FB = 2.7V, COMP = 1.1V                                | 0.4                    |      | 2.5   | mA    |
| COMP Source Current     | FB = 1.8V, COMP = REF − 1.2V                          | −0.2                   | −0.5 | −0.8  | mA    |
| Gain Bandwidth Product  | (Note 9)                                              |                        | 2    |       | MHz   |
| PWM Section             |                                                       |                        |      |       |       |
| Maximum Duty Cycle      | UCCx813-0/-2/-3                                       | 97                     | 99   | 100   | %     |
|                         | UCCx813-1/-4/-5                                       | 48                     | 49   | 50    | %     |
| Minimum Duty Cycle      | COMP = 0V                                             |                        |      | 0     | %     |
| Current Sense Section   |                                                       |                        |      |       |       |
| Gain                    | (Note 5)                                              | 1.10                   | 1.65 | 1.80  | V/V   |
| Maximum Input Signal    | COMP = 5V (Note 6)                                    | 0.9                    | 1.0  | 1.1   | V     |
| Input Bias Current      |                                                       | −200                   |      | 200   | nA    |
| CS Blank Time           |                                                       | 50                     | 100  | 150   | ns    |
| Over-Current Threshold  |                                                       | 1.32                   | 1.55 | 1.70  | V     |
| COMP to CS Offset       | CS = 0V                                               | 0.45                   | 0.90 | 1.35  | V     |

**ELECTRICAL CHARACTERISTICS** Unless otherwise stated, these specifications apply for  $-40^{\circ}\text{C} \leq T_A \leq +85^{\circ}\text{C}$  for UCC2813-x;  $0^{\circ}\text{C} \leq T_A \leq +70^{\circ}\text{C}$  for UCC3813-x;  $V_{CC} = 10\text{V}$  (Note 3);  $R_T = 100\text{k}$  from REF to RC;  $C_T = 330\text{pF}$  from RC to GND;  $0.1\mu\text{F}$  capacitor from VCC to GND;  $0.1\mu\text{F}$  capacitor from VREF to GND.  $T_A = T_J$ .

| PARAMETER                                                | TEST CONDITIONS                     | UCC2813-x<br>UCC3813-x |      |      | UNITS |
|----------------------------------------------------------|-------------------------------------|------------------------|------|------|-------|
|                                                          |                                     | MIN                    | TYP  | MAX  |       |
| Output Section                                           |                                     |                        |      |      |       |
| OUT Low Level                                            | I = 20mA, all parts                 |                        | 0.1  | 0.4  | V     |
|                                                          | I = 200mA, all parts                |                        | 0.35 | 0.90 | V     |
|                                                          | I = 50mA, VCC = 5V, UCCx813-3/-5    |                        | 0.15 | 0.40 | V     |
|                                                          | I = 20mA, VCC = 0V, all parts       |                        | 0.7  | 1.2  | V     |
| OUT High V <sub>SAT</sub><br>(V <sub>CC</sub> -OUT)      | I = -20mA, all parts                |                        | 0.15 | 0.40 | V     |
|                                                          | I = -200mA, all parts               |                        | 1.0  | 1.9  | V     |
|                                                          | I = -50mA, VCC = 5V, UCCx813-3/-5   |                        | 0.4  | 0.9  | V     |
| Rise Time                                                | C <sub>L</sub> = 1nF                |                        | 41   | 70   | ns    |
| Fall Time                                                | C <sub>L</sub> = 1nF                |                        | 44   | 75   | ns    |
| Undervoltage Lockout Section                             |                                     |                        |      |      |       |
| Start Threshold (Note 8)                                 | UCCx813-0                           | 6.6                    | 7.2  | 7.8  | V     |
|                                                          | UCCx813-1                           | 8.6                    | 9.4  | 10.2 | V     |
|                                                          | UCCx813-2/-4                        | 11.5                   | 12.5 | 13.5 | V     |
|                                                          | UCCx813-3/-5                        | 3.7                    | 4.1  | 4.5  | V     |
| Stop Threshold (Note 8)                                  | UCC1813-0                           | 6.3                    | 6.9  | 7.5  | V     |
|                                                          | UCC1813-1                           | 6.8                    | 7.4  | 8.0  | V     |
|                                                          | UCCx813-2/-4                        | 7.6                    | 8.3  | 9.0  | V     |
|                                                          | UCCx813-3/-5                        | 3.2                    | 3.6  | 4.0  | V     |
| Start to Stop Hysteresis                                 | UCCx813-0                           | 0.12                   | 0.3  | 0.48 | V     |
|                                                          | UCCx813-1                           | 1.6                    | 2    | 2.4  | V     |
|                                                          | UCCx813-2/-4                        | 3.5                    | 4.2  | 5.1  | V     |
|                                                          | UCCx813-3/-5                        | 0.2                    | 0.5  | 0.8  | V     |
| Soft Start Section                                       |                                     |                        |      |      |       |
| COMP Rise Time                                           | FB = 1.8V, Rise from 0.5V to REF-1V |                        | 4    |      | ms    |
| Overall Section                                          |                                     |                        |      |      |       |
| Start-up Current                                         | VCC < Start Threshold               |                        | 0.1  | 0.23 | mA    |
| Operating Supply Current                                 | FB = 0V, CS = 0V, RC = 0V           |                        | 0.5  | 1.2  | mA    |
| VCC Internal Zener Voltage                               | ICC = 10mA (Note 8)                 | 12                     | 13.5 | 15   | V     |
| VCC Internal Zener Voltage Minus Start Threshold Voltage | UCCx813-2/-4                        | 0.5                    | 1.0  |      | V     |

Note 3: Adjust VCC above the start threshold before setting at 10V.

Note 4: Oscillator frequency for the UCCx813-0, UCCx813-2 and UCCx813-3 is the output frequency.

Oscillator frequency for the UCCx813-1, UCCx813-4 and UCCx813-5 is twice the output frequency.

Note 5: Gain is defined by:  $A = \frac{\Delta V_{COMP}}{\Delta V_{CS}}$   $0 \leq V_{CS} \leq 0.8\text{V}$ .

Note 6: Parameter measured at trip point of latch with Pin 2 at 0V.

Note 7: Total Variation includes temperature stability and load regulation.

Note 8: Start Threshold, Stop Threshold and Zener Shunt Thresholds track one another.

Note 9: Ensured by design. Not 100% tested in production.

## PIN DESCRIPTIONS (cont.)

**COMP:** COMP is the output of the error amplifier and the input of the PWM comparator.

Unlike other devices, the error amplifier in the UCC3813 family is a true, low output-impedance, 2MHz operational amplifier. As such, the COMP terminal can both source and sink current. However, the error amplifier is internally current limited, so that you can command zero duty cycle by externally forcing COMP to GND.

The UCC3813 family features built-in full cycle Soft Start. Soft Start is implemented as a clamp on the maximum COMP voltage.

**FB:** FB is the inverting input of the error amplifier. For best stability, keep FB lead length as short as possible and FB stray capacitance as small as possible.

**CS:** CS is the input to the current sense comparators. The UCC3813 family has two different current sense comparators: the PWM comparator and an over-current comparator.

The UCC3813 family contains digital current sense filtering, which disconnects the CS terminal from the current sense comparator during the 100ns interval immediately following the rising edge of the OUT pin. This digital filtering, also called leading-edge blanking, means that in most applications, no analog filtering (RC filter) is required on CS. Compared to an external RC filter technique, the leading-edge blanking provides a smaller effective CS to OUT propagation delay. Note, however, that the minimum non-zero On-Time of the OUT signal is directly affected by the leading-edge-blanking and the CS to OUT propagation delay.

The over-current comparator is only intended for fault sensing, and exceeding the over-current threshold will cause a soft start cycle.

**RC:** RC is the oscillator timing pin. For fixed frequency operation, set timing capacitor charging current by connecting a resistor from REF to RC. Set frequency by connecting a timing capacitor from RC to GND. For best performance, keep the timing capacitor lead to GND as short and direct as possible. If possible, use separate ground traces for the timing capacitor and all other functions.

The frequency of oscillation can be estimated with the following equations:

$$\text{UCCx813-0/-1/-2/-4: } F = \frac{1.5}{R \cdot C}$$

$$\text{UCCx813-3, UCCx813-5: } F = \frac{1.0}{R \cdot C}$$

where frequency is in Hz, resistance is in  $\Omega$ , and capacitance is in farads. The recommended range of timing resistors is between 10k and 200k and timing capacitor is 100pF to 1000pF. Never use a timing resistor less than 10k.

**GND:** GND is reference ground and power ground for all functions on this part.

**OUT:** OUT is the output of a high-current power driver capable of driving the gate of a power MOSFET with peak currents exceeding  $\pm 750\text{mA}$ . OUT is actively held low when VCC is below the UVLO threshold.

The high-current power driver consists of FET output devices, which can switch all of the way to GND and all of the way to VCC. The output stage also provides a very low impedance to overshoot and undershoot. This means that in many cases, external schottky clamp diodes are not required.

**VCC:** VCC is the power input connection for this device. In normal operation VCC is powered through a current limiting resistor. Although quiescent VCC current is very low, total supply current will be higher, depending on OUT current. Total VCC current is the sum of quiescent VCC current and the average OUT current. Knowing the operating frequency and the MOSFET gate charge (Qg), average OUT current can be calculated from:

$$I_{OUT} = Q_g \cdot F.$$

To prevent noise problems, bypass VCC to GND with a 0.1  $\mu\text{F}$  ceramic capacitor in parallel as close to the VCC pin as possible. An electrolytic capacitor may also be used in addition to the ceramic capacitor.

**REF:** REF is the voltage reference for the error amplifier and also for many other functions on the IC. REF is also used as the logic power supply for high speed switching logic on the IC.

When VCC is greater than 1V and less than the UVLO threshold, REF is pulled to ground through a 5k $\Omega$  resistor. This means that REF can be used as a logic output indicating power system status. It is important for reference stability that REF is bypassed to GND with a ceramic capacitor as close to the pin as possible. An electrolytic capacitor may also be used in addition to the ceramic capacitor. A minimum of 0.1 $\mu\text{F}$  ceramic is required. Additional REF bypassing is required for external loads greater than 2.5mA on the reference.

To prevent noise problems with high speed switching transients, bypass REF to ground with a ceramic capacitor very close to the IC package.

## APPLICATION INFORMATION

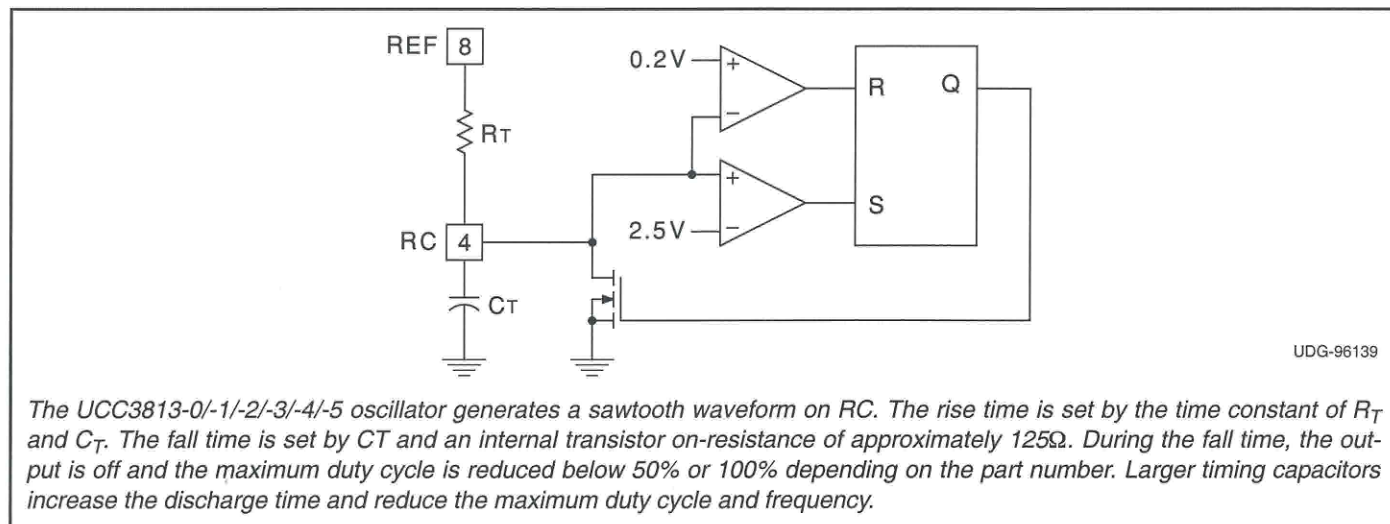


Figure 1. Oscillator.

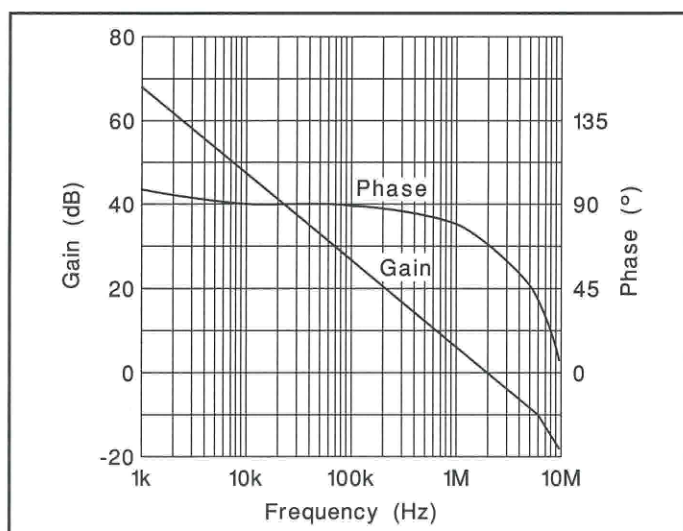


Figure 2. Error amplifier gain/phase response.

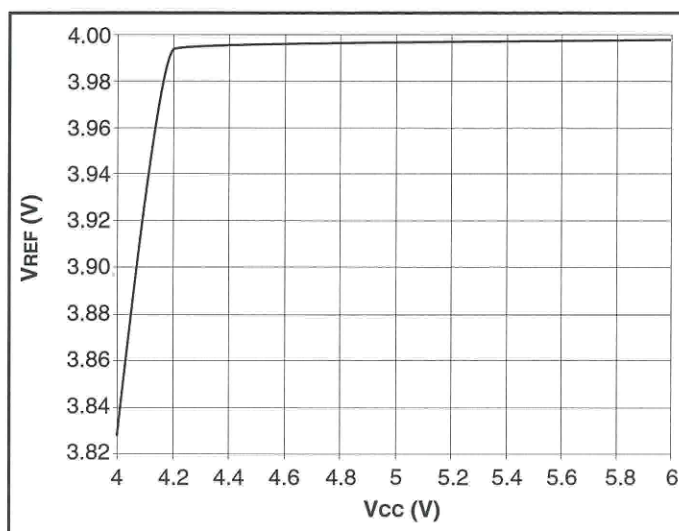


Figure 5. UCC3813-3/-5  $V_{REF}$  vs.  $V_{CC}$ ;  $I_{LOAD} = 0.5mA$ .

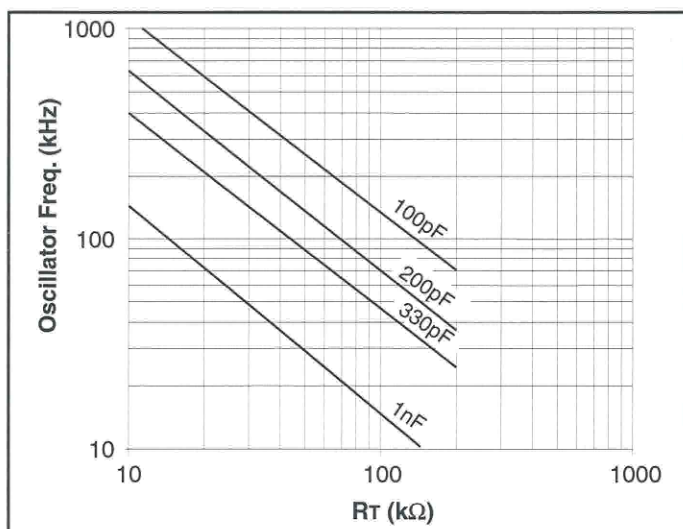


Figure 3. UCC3813-0/-1/-2/-4 oscillator frequency vs.  $R_T$  and  $C_T$ .

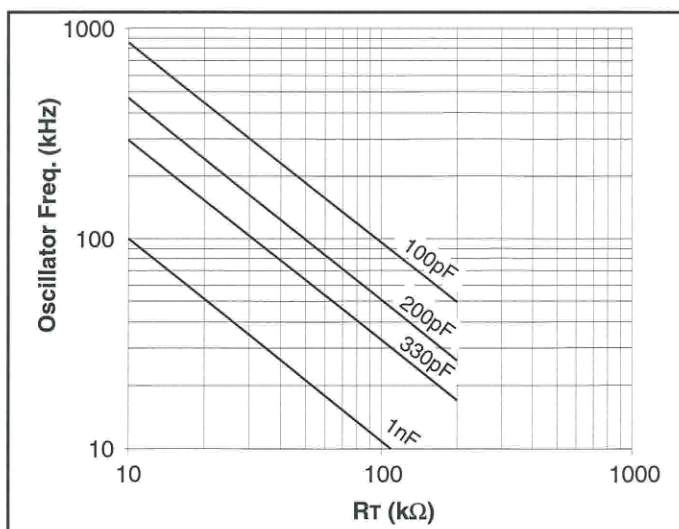


Figure 6. UCC3813-3/-5 oscillator frequency vs.  $R_T$  and  $C_T$ .

# APPLICATION INFORMATION (cont.)

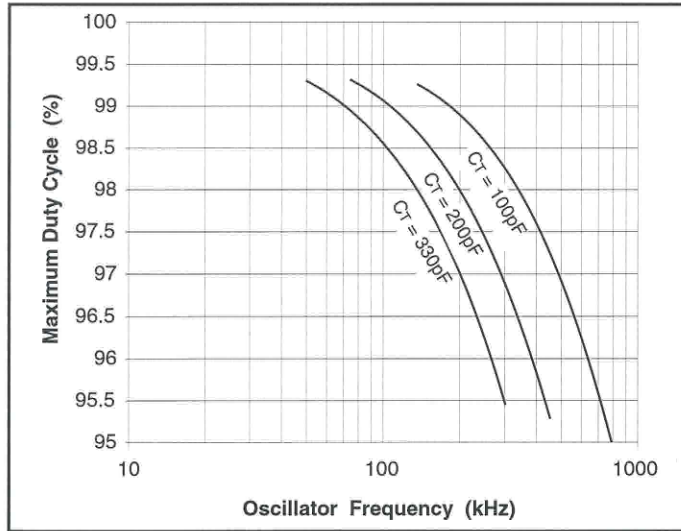


Figure 4. UCC3813-0/-2/-3 max. duty cycle vs. oscillator frequency.

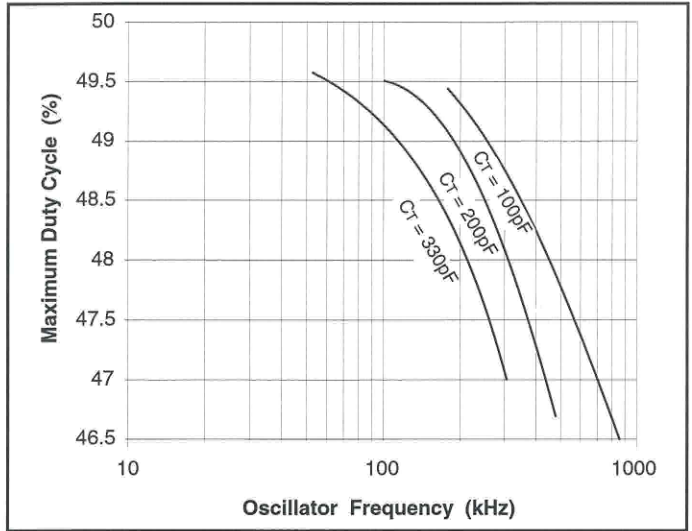


Figure 7. UCC3813-1/-4/-5 max. duty cycle vs. oscillator frequency.

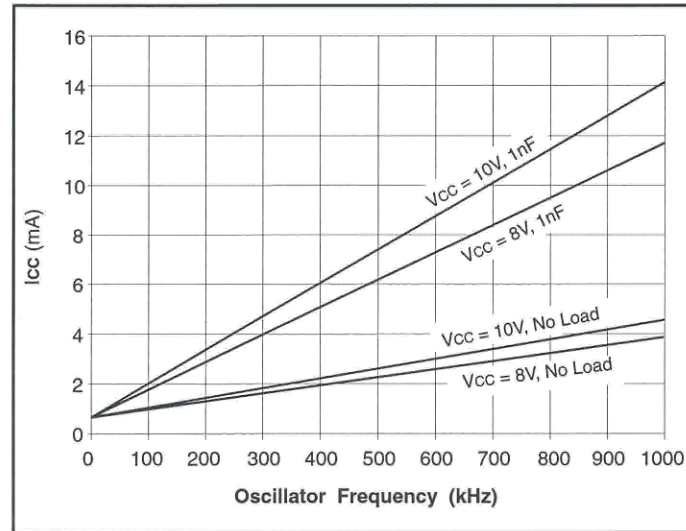


Figure 8. UCC3813-0  $I_{CC}$  vs. oscillator frequency.

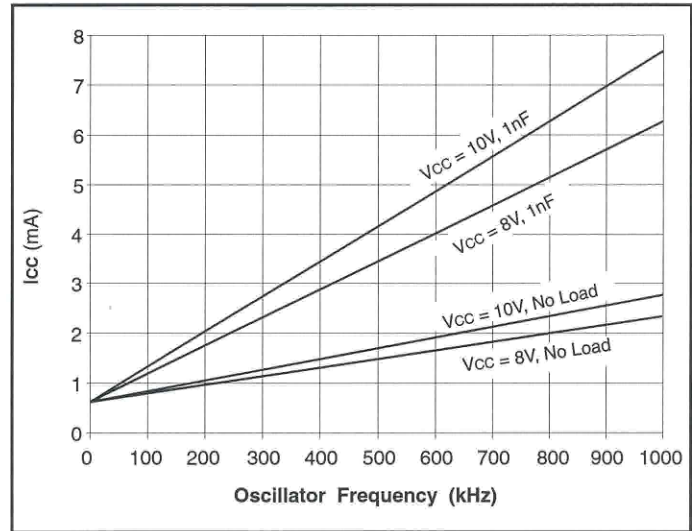


Figure 10. UCC3813-5  $I_{CC}$  vs. oscillator frequency.

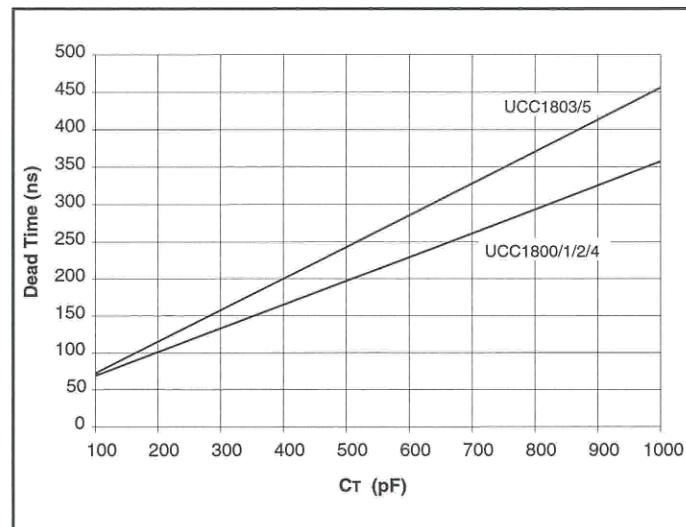


Figure 9. Dead time vs.  $C_T$ ,  $R_T = 100k$ .

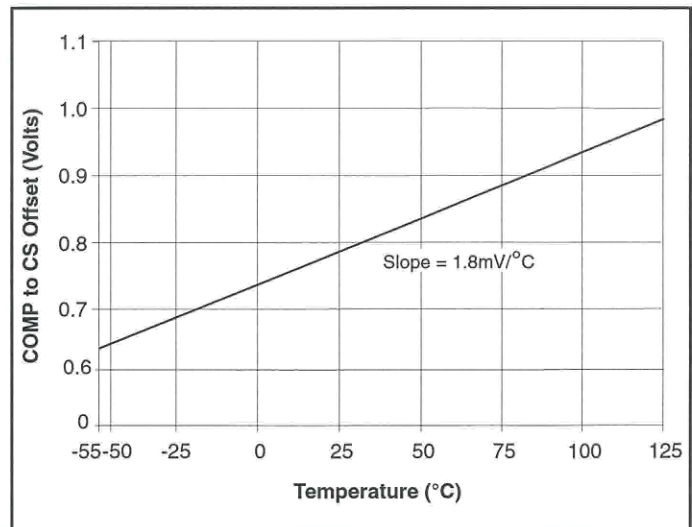


Figure 11. COMP to CS offset vs. temperature,  $CS = 0V$ .

## REVISION HISTORY

### 8/2010 Revision B to Revision C

Updated Abs Max Table to read:

Analog Inputs (FB, CS, RC, COMP).....-0.3V to the lesser of 6.3V or  $V_{CC} + 0.3V$

From: Analog Inputs (FB, CS).....-0.3V to 6.3V

**PACKAGING INFORMATION**

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4)  | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|---------------------------|-------------------------|
| UCC2813D-0       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-0<br>2813D-0 | <a href="#">Samples</a> |
| UCC2813D-0G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-0<br>2813D-0 | <a href="#">Samples</a> |
| UCC2813D-1       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-1<br>2813D-1 | <a href="#">Samples</a> |
| UCC2813D-1G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-1<br>2813D-1 | <a href="#">Samples</a> |
| UCC2813D-2       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-2<br>2813D-2 | <a href="#">Samples</a> |
| UCC2813D-2G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-2<br>2813D-2 | <a href="#">Samples</a> |
| UCC2813D-3       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-3<br>2813D-3 | <a href="#">Samples</a> |
| UCC2813D-3G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-3<br>2813D-3 | <a href="#">Samples</a> |
| UCC2813D-4       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-4<br>2813D-4 | <a href="#">Samples</a> |
| UCC2813D-4G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-4<br>2813D-4 | <a href="#">Samples</a> |
| UCC2813D-5       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-5<br>2813D-5 | <a href="#">Samples</a> |
| UCC2813D-5G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-5<br>2813D-5 | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4)  | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|---------------------------|-------------------------|
| UCC2813DTR-0     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-0<br>2813D-0 | <a href="#">Samples</a> |
| UCC2813DTR-0G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-0<br>2813D-0 | <a href="#">Samples</a> |
| UCC2813DTR-1     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-1<br>2813D-1 | <a href="#">Samples</a> |
| UCC2813DTR-1G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-1<br>2813D-1 | <a href="#">Samples</a> |
| UCC2813DTR-2     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-2<br>2813D-2 | <a href="#">Samples</a> |
| UCC2813DTR-2G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-2<br>2813D-2 | <a href="#">Samples</a> |
| UCC2813DTR-3     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-3<br>2813D-3 | <a href="#">Samples</a> |
| UCC2813DTR-3G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-3<br>2813D-3 | <a href="#">Samples</a> |
| UCC2813DTR-4     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-4<br>2813D-4 | <a href="#">Samples</a> |
| UCC2813DTR-4G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-4<br>2813D-4 | <a href="#">Samples</a> |
| UCC2813DTR-5     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-5<br>2813D-5 | <a href="#">Samples</a> |
| UCC2813DTR-5G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 85    | UCC2813<br>D-5<br>2813D-5 | <a href="#">Samples</a> |
| UCC2813N-0       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-0                | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4) | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|--------------------------|-------------------------|
| UCC2813N-0G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-0               | <a href="#">Samples</a> |
| UCC2813N-1       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-1               | <a href="#">Samples</a> |
| UCC2813N-1G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-1               | <a href="#">Samples</a> |
| UCC2813N-2       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-2               | <a href="#">Samples</a> |
| UCC2813N-2G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-2               | <a href="#">Samples</a> |
| UCC2813N-3       | ACTIVE        |              | UTR                |      |             | TBD                        | Call TI          | Call TI              |              |                          | <a href="#">Samples</a> |
| UCC2813N-4       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-4               | <a href="#">Samples</a> |
| UCC2813N-4G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-4               | <a href="#">Samples</a> |
| UCC2813N-5       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-5               | <a href="#">Samples</a> |
| UCC2813N-5G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | -40 to 85    | UCC2813N-5               | <a href="#">Samples</a> |
| UCC2813PW-0      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28130                    | <a href="#">Samples</a> |
| UCC2813PW-0G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28130                    | <a href="#">Samples</a> |
| UCC2813PW-1      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28131                    | <a href="#">Samples</a> |
| UCC2813PW-1G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28131                    | <a href="#">Samples</a> |
| UCC2813PW-2      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28132                    | <a href="#">Samples</a> |
| UCC2813PW-2G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28132                    | <a href="#">Samples</a> |
| UCC2813PW-3      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28133                    | <a href="#">Samples</a> |
| UCC2813PW-3G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28133                    | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4)  | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|---------------------------|-------------------------|
| UCC2813PW-4      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28134                     | <a href="#">Samples</a> |
| UCC2813PW-4G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28134                     | <a href="#">Samples</a> |
| UCC2813PW-5      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28135                     | <a href="#">Samples</a> |
| UCC2813PW-5G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28135                     | <a href="#">Samples</a> |
| UCC2813PWTR-0    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28130                     | <a href="#">Samples</a> |
| UCC2813PWTR-0G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28130                     | <a href="#">Samples</a> |
| UCC2813PWTR-1    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28131                     | <a href="#">Samples</a> |
| UCC2813PWTR-1G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28131                     | <a href="#">Samples</a> |
| UCC2813PWTR-3    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28133                     | <a href="#">Samples</a> |
| UCC2813PWTR-3G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28133                     | <a href="#">Samples</a> |
| UCC2813PWTR-4    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28134                     | <a href="#">Samples</a> |
| UCC2813PWTR-4G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28134                     | <a href="#">Samples</a> |
| UCC2813PWTR-5    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28135                     | <a href="#">Samples</a> |
| UCC2813PWTR-5G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | -40 to 85    | 28135                     | <a href="#">Samples</a> |
| UCC3813D-0       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-0<br>3813D-0 | <a href="#">Samples</a> |
| UCC3813D-0G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-0<br>3813D-0 | <a href="#">Samples</a> |
| UCC3813D-1       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-1<br>3813D-1 | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4)  | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|---------------------------|-------------------------|
| UCC3813D-1G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-1<br>3813D-1 | <a href="#">Samples</a> |
| UCC3813D-2       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-2<br>3813D-2 | <a href="#">Samples</a> |
| UCC3813D-2G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-2<br>3813D-2 | <a href="#">Samples</a> |
| UCC3813D-3       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-3<br>3813D-3 | <a href="#">Samples</a> |
| UCC3813D-3G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-3<br>3813D-3 | <a href="#">Samples</a> |
| UCC3813D-4       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-4<br>3813D-4 | <a href="#">Samples</a> |
| UCC3813D-4G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-4<br>3813D-4 | <a href="#">Samples</a> |
| UCC3813D-5       | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-5<br>3813D-5 | <a href="#">Samples</a> |
| UCC3813D-5G4     | ACTIVE        | SOIC         | D                  | 8    | 75          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-5<br>3813D-5 | <a href="#">Samples</a> |
| UCC3813DTR-0     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-0<br>3813D-0 | <a href="#">Samples</a> |
| UCC3813DTR-0G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-0<br>3813D-0 | <a href="#">Samples</a> |
| UCC3813DTR-1     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-1<br>3813D-1 | <a href="#">Samples</a> |
| UCC3813DTR-1G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-1            | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4)  | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|---------------------------|-------------------------|
|                  |               |              |                    |      |             |                            |                  |                      |              | 3813D-1                   |                         |
| UCC3813DTR-2     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-2<br>3813D-2 | <a href="#">Samples</a> |
| UCC3813DTR-2G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-2<br>3813D-2 | <a href="#">Samples</a> |
| UCC3813DTR-3     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-3<br>3813D-3 | <a href="#">Samples</a> |
| UCC3813DTR-3G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-3<br>3813D-3 | <a href="#">Samples</a> |
| UCC3813DTR-4     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-4<br>3813D-4 | <a href="#">Samples</a> |
| UCC3813DTR-4G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-4<br>3813D-4 | <a href="#">Samples</a> |
| UCC3813DTR-5     | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-5<br>3813D-5 | <a href="#">Samples</a> |
| UCC3813DTR-5G4   | ACTIVE        | SOIC         | D                  | 8    | 2500        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | 0 to 70      | UCC3813<br>D-5<br>3813D-5 | <a href="#">Samples</a> |
| UCC3813N-0       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-0                | <a href="#">Samples</a> |
| UCC3813N-0G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-0                | <a href="#">Samples</a> |
| UCC3813N-1       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-1                | <a href="#">Samples</a> |
| UCC3813N-1G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-1                | <a href="#">Samples</a> |
| UCC3813N-2       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-2                | <a href="#">Samples</a> |
| UCC3813N-2G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-2                | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4) | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|--------------------------|-------------------------|
| UCC3813N-3       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-3               | <a href="#">Samples</a> |
| UCC3813N-3G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-3               | <a href="#">Samples</a> |
| UCC3813N-4       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-4               | <a href="#">Samples</a> |
| UCC3813N-4G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-4               | <a href="#">Samples</a> |
| UCC3813N-5       | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-5               | <a href="#">Samples</a> |
| UCC3813N-5G4     | ACTIVE        | PDIP         | P                  | 8    | 50          | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | N / A for Pkg Type   | 0 to 70      | UCC3813N-5               | <a href="#">Samples</a> |
| UCC3813PW-0      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38130                    | <a href="#">Samples</a> |
| UCC3813PW-0G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38130                    | <a href="#">Samples</a> |
| UCC3813PW-1      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38131                    | <a href="#">Samples</a> |
| UCC3813PW-1G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38131                    | <a href="#">Samples</a> |
| UCC3813PW-2      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38132                    | <a href="#">Samples</a> |
| UCC3813PW-2G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38132                    | <a href="#">Samples</a> |
| UCC3813PW-3      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38133                    | <a href="#">Samples</a> |
| UCC3813PW-3G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38133                    | <a href="#">Samples</a> |
| UCC3813PW-4      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38134                    | <a href="#">Samples</a> |
| UCC3813PW-4G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38134                    | <a href="#">Samples</a> |
| UCC3813PW-5      | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38135                    | <a href="#">Samples</a> |
| UCC3813PW-5G4    | ACTIVE        | TSSOP        | PW                 | 8    | 150         | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38135                    | <a href="#">Samples</a> |

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4) | Samples                 |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|--------------------------|-------------------------|
| UCC3813PWTR-0    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38130                    | <a href="#">Samples</a> |
| UCC3813PWTR-0G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38130                    | <a href="#">Samples</a> |
| UCC3813PWTR-1    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38131                    | <a href="#">Samples</a> |
| UCC3813PWTR-1G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38131                    | <a href="#">Samples</a> |
| UCC3813PWTR-3    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38133                    | <a href="#">Samples</a> |
| UCC3813PWTR-3G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38133                    | <a href="#">Samples</a> |
| UCC3813PWTR-5    | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38135                    | <a href="#">Samples</a> |
| UCC3813PWTR-5G4  | ACTIVE        | TSSOP        | PW                 | 8    | 2000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-2-260C-1 YEAR  | 0 to 70      | 38135                    | <a href="#">Samples</a> |

(1) The marketing status values are defined as follows:

**ACTIVE:** Product device recommended for new designs.

**LIFEBUY:** TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

**NRND:** Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

**PREVIEW:** Device has been announced but is not in production. Samples may or may not be available.

**OBSOLETE:** TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

**TBD:** The Pb-Free/Green conversion plan has not been defined.

**Pb-Free (RoHS):** TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

**Pb-Free (RoHS Exempt):** This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

**Green (RoHS & no Sb/Br):** TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) Only one of markings shown within the brackets will appear on the physical device.

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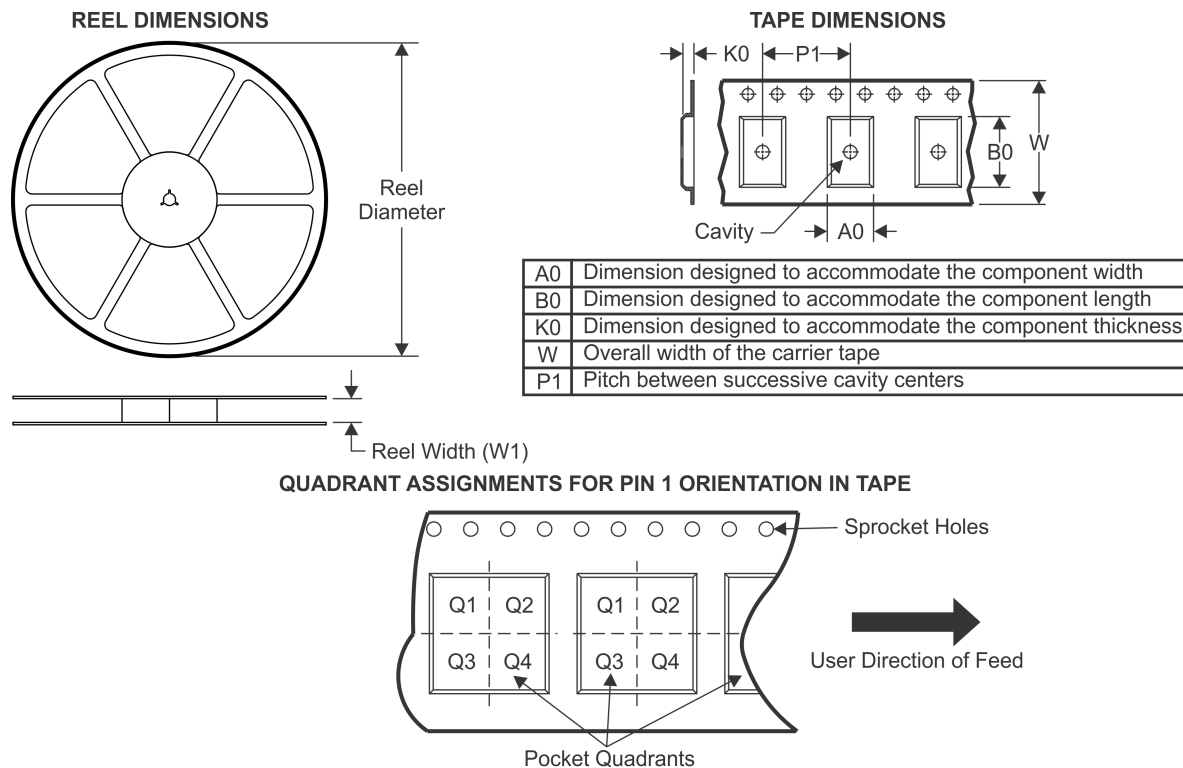
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**OTHER QUALIFIED VERSIONS OF UCC2813-0, UCC2813-1, UCC2813-2, UCC2813-3, UCC2813-4, UCC2813-5 :**

- Automotive: [UCC2813-0-Q1](#), [UCC2813-1-Q1](#), [UCC2813-2-Q1](#), [UCC2813-3-Q1](#), [UCC2813-4-Q1](#), [UCC2813-5-Q1](#)

**NOTE: Qualified Version Definitions:**

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

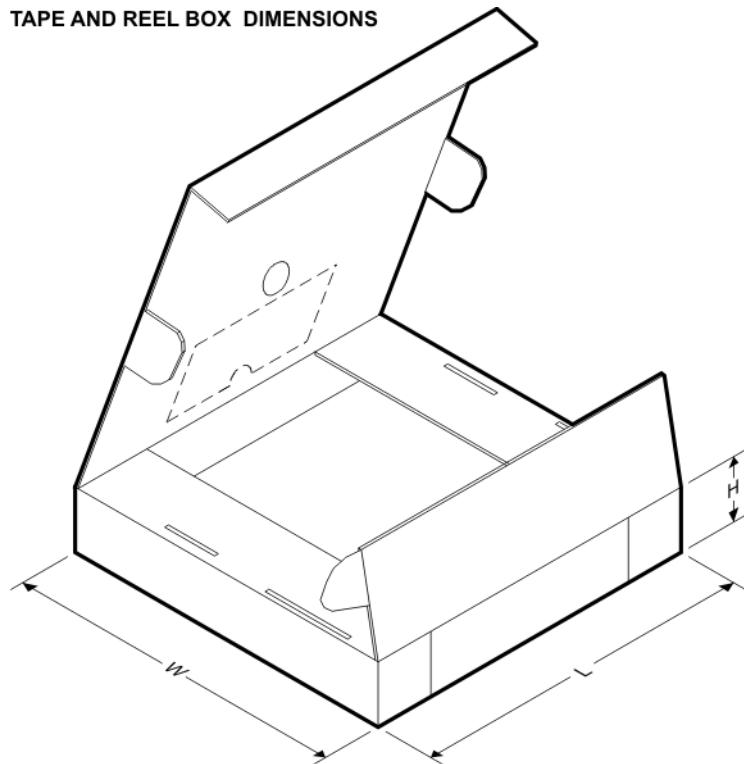
**TAPE AND REEL INFORMATION**


\*All dimensions are nominal

| Device        | Package Type | Package Drawing | Pins | SPQ  | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| UCC2813DTR-0  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813DTR-1  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813DTR-2  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813DTR-3  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813DTR-4  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813DTR-5  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC2813PWTR-0 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC2813PWTR-1 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC2813PWTR-3 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC2813PWTR-4 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC2813PWTR-5 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-0  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-1  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-2  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-3  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-4  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813DTR-5  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| UCC3813PWTR-0 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |

| Device        | Package Type | Package Drawing | Pins | SPQ  | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| UCC3813PWTR-1 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC3813PWTR-3 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |
| UCC3813PWTR-5 | TSSOP        | PW              | 8    | 2000 | 330.0              | 12.4               | 7.0     | 3.6     | 1.6     | 8.0     | 12.0   | Q1            |

## TAPE AND REEL BOX DIMENSIONS



\*All dimensions are nominal

| Device        | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|---------------|--------------|-----------------|------|------|-------------|------------|-------------|
| UCC2813DTR-0  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813DTR-1  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813DTR-2  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813DTR-3  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813DTR-4  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813DTR-5  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC2813PWTR-0 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC2813PWTR-1 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC2813PWTR-3 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC2813PWTR-4 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC2813PWTR-5 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC3813DTR-0  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC3813DTR-1  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC3813DTR-2  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |

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| Device        | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|---------------|--------------|-----------------|------|------|-------------|------------|-------------|
| UCC3813DTR-3  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC3813DTR-4  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC3813DTR-5  | SOIC         | D               | 8    | 2500 | 340.5       | 338.1      | 20.6        |
| UCC3813PWTR-0 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC3813PWTR-1 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC3813PWTR-3 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |
| UCC3813PWTR-5 | TSSOP        | PW              | 8    | 2000 | 367.0       | 367.0      | 35.0        |

P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



- NOTES:
- A. All linear dimensions are in inches (millimeters).
  - B. This drawing is subject to change without notice.
  - C. Falls within JEDEC MS-001 variation BA.

D (R-PDSO-G8)

PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in inches (millimeters).
  - B. This drawing is subject to change without notice.
  - $\triangle C$  Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
  - $\triangle D$  Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
  - E. Reference JEDEC MS-012 variation AA.

D (R-PDSO-G8)

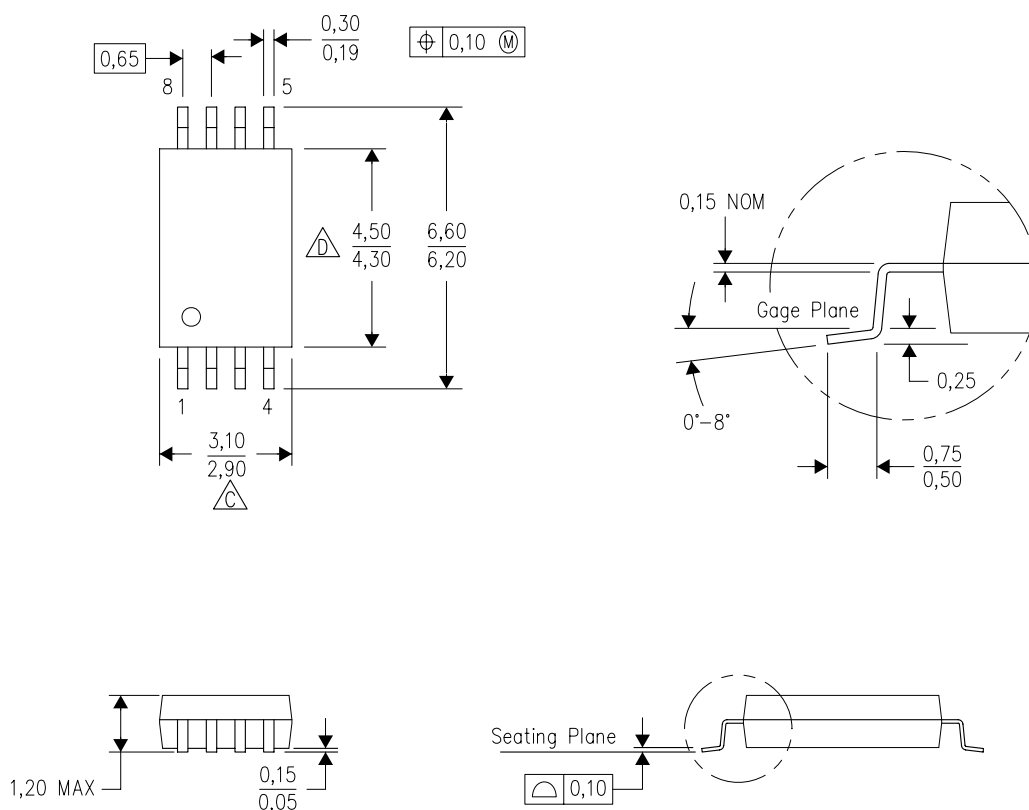
PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Publication IPC-7351 is recommended for alternate designs.
  - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
  - E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

PW (R-PDSO-G8)

PLASTIC SMALL OUTLINE



4040064-2/G 02/11

- NOTES:
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
  - B. This drawing is subject to change without notice.
  - C. Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
  - D. Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
  - E. Falls within JEDEC MO-153

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### Applications

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
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| Computers and Peripherals     | <a href="http://www.ti.com/computers">www.ti.com/computers</a>                           |
| Consumer Electronics          | <a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>                   |
| Energy and Lighting           | <a href="http://www.ti.com/energy">www.ti.com/energy</a>                                 |
| Industrial                    | <a href="http://www.ti.com/industrial">www.ti.com/industrial</a>                         |
| Medical                       | <a href="http://www.ti.com/medical">www.ti.com/medical</a>                               |
| Security                      | <a href="http://www.ti.com/security">www.ti.com/security</a>                             |
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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