

CURRENT MODE PWM CONTROLLER

FEATURES

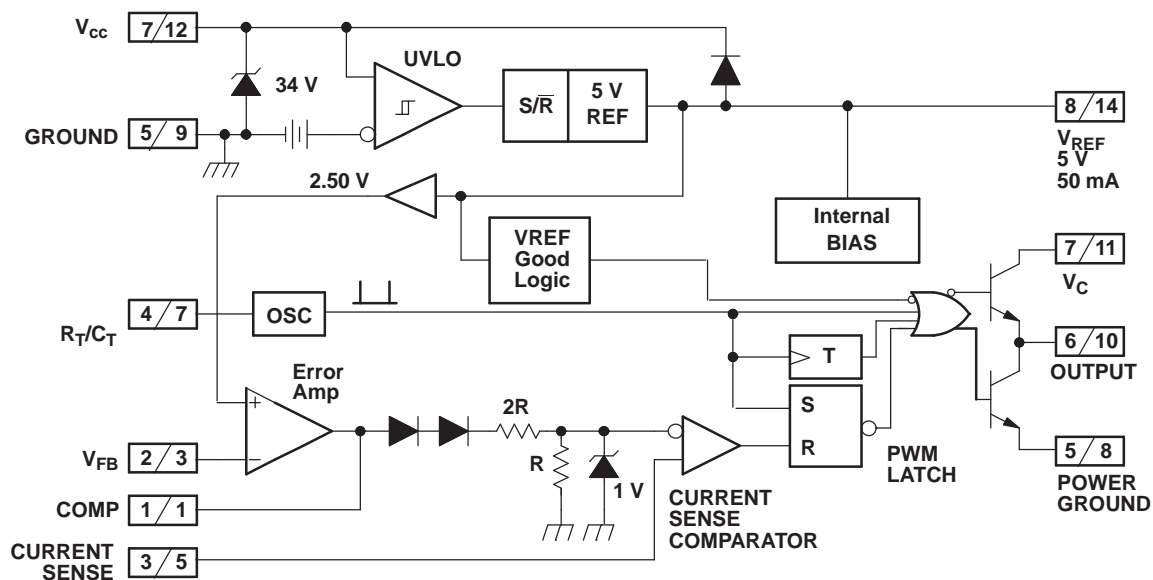
- Optimized For Off-line and DC-to-DC Converters
- Low Start-Up Current (<1 mA)
- Automatic Feed Forward Compensation
- Pulse-by-Pulse Current Limiting
- Enhanced Load Response Characteristics
- Under-Voltage Lockout With Hysteresis
- Double Pulse Suppression
- High Current Totem Pole Output
- Internally Trimmed Bandgap Reference
- 500-kHz Operation
- Low R_O Error Amp

DESCRIPTION

The UC1842/3/4/5 family of control devices 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 under-voltage lockout featuring start up current less than 1 mA, 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 UC1842 and UC1844 have UVLO thresholds of $16 V_{ON}$ and $10 V_{OFF}$, ideally suited to off-line applications. The corresponding thresholds for the UC1843 and UC1845 are 8.4 V and 7.6 V. The UC1842 and UC1843 can operate to duty cycles approaching 100%. A range of zero to 50% is obtained by the UC1844 and UC1845 by the addition of an internal toggle flip flop which blanks the output off every other clock cycle.

BLOCK DIAGRAM



Note 1: **A/B** A = DIL-8 Pin Number. B = SO-14 and CFP-14 Pin Number.

Note 2: Toggle flip flop used only in 1844 and 1845.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

ABSOLUTE MAXIMUM RATINGS⁽¹⁾

| | | UNIT |
|--|---------------------------------------|-------------------|
| Supply voltage | Low impedance source | 30 V |
| | $I_{CC} < 30 \text{ mA}$ | Self Limiting |
| Output current | | $\pm 1 \text{ A}$ |
| Output energy (capacitive load) | | 5 μJ |
| Analog inputs (Pins 2, 3) | | -0.3 V to 6.3 V |
| Error amp output sink current | | 10 mA |
| Power dissipation | $T_A \leq 25^\circ\text{C}$ (DIL-8) | 1 W |
| | $T_A \leq 25^\circ\text{C}$ (SOIC-14) | 725 mW |
| | $T_A \leq 25^\circ\text{C}$ (SOIC-8) | 650 mW |
| Storage temperature range | | -65°C to 150°C |
| Junction temperature range | | -55°C to 150°C |
| Lead temperature (soldering, 10 seconds) | | 300°C |

(1) All voltages are with respect to Pin 5. All currents are positive into the specified terminal. Consult Packaging Section of Databook for thermal limitations and considerations of packages.

CONNECTION DIAGRAMS



NC – No internal connection



THERMAL CHARACTERISTICS

over operating free-air temperature range (unless otherwise noted)

| PACKAGE | | θ_{JC} | θ_{JA} |
|---------|-----|-------------------|-----------------------|
| DIL-8 | J | 28 ⁽¹⁾ | 125-160 |
| | N | 25 | 110 ⁽²⁾ |
| SOIC-8 | D8 | 42 | 84-160 ⁽²⁾ |
| SOIC-14 | D14 | 35 | 50-120 ⁽²⁾ |
| CFP-14 | W | 5.49°C/W | 175.4C/W |
| PLCC-20 | Q | 34 | 43-75 ⁽²⁾ |

(1) θ_{JC} data values stated were derived from MIL-STD-1835B.

(2) Specified θ_{JA} (junction to ambient) is for devices mounted to 5 in² FR4 PC board with one ounce copper where noted. When resistance range is given, lower values are for 5 in². 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 100 x 100-mil probe land area at the end of each trace.

DISSIPATION RATINGS

| PACKAGE | $T_A \leq 25^\circ\text{C}$ POWER RATING | DERATING FACTOR ABOVE $T_A \leq 25^\circ\text{C}$ | $T_A \leq 70^\circ\text{C}$ POWER RATING | $T_A \leq 85^\circ\text{C}$ POWER RATING | $T_A \leq 125^\circ\text{C}$ POWER RATING |
|---------|---|--|---|---|--|
| W | 700 mW | 5.5 mW/°C | 452 mW | 370 mW | 150 mW |

ELECTRICAL CHARACTERISTICS

Unless otherwise stated, these specifications apply for $-55^\circ\text{C} \leq T_A \leq 125^\circ\text{C}$ for the UC184X; $-40^\circ\text{C} \leq T_A \leq 85^\circ\text{C}$ for the UC284X; $0^\circ\text{C} \leq T_A \leq 70^\circ\text{C}$ for the 384X; $V_{CC} = 15\text{ V}^{(1)}$; $R_T = 10\text{ k}\Omega$; $C_T = 3.3\text{ nF}$, $T_A = T_J$.

| PARAMETER | TEST CONDITIONS | UC1842/3/4/5 UC2842/3/4/5 | | | UC3842/3/4/5 | | | UNIT |
|---------------------------|---|------------------------------|------|------|--------------|------|------|---------------|
| | | MIN | TYP | MAX | MIN | TYP | MAX | |
| REFERENCE SECTION | | | | | | | | |
| Output Voltage | $T_J = 25^\circ\text{C}$, $I_O = 1\text{ mA}$ | 4.95 | 5.00 | 5.05 | 4.90 | 5.00 | 5.10 | V |
| Line Regulation | $12 \leq V_{IN} \leq 25\text{ V}$ | | 6 | 20 | | 6 | 20 | mV |
| Load Regulation | $1 \leq I_O \leq 20\text{ mA}$ | | 6 | 25 | | 6 | 25 | |
| Temp. Stability | See ⁽²⁾⁽³⁾ | | 0.2 | 0.4 | | 0.2 | 0.4 | mV/°C |
| Total Output Variation | Line, load, temperature ⁽²⁾ | 4.9 | | 5.1 | 4.82 | | 5.18 | V |
| Output Noise Voltage | $10\text{ Hz} \leq f \leq 10\text{ kHz}$, $T_J = 25^\circ\text{C}^{(2)}$ | | 50 | | | 50 | | μV |
| Long Term Stability | $T_A = 125^\circ\text{C}$, 1000 Hrs ⁽²⁾ | | 5 | 25 | | 5 | 25 | mV |
| Output Short Circuit | | -30 | -100 | -180 | -30 | -100 | -180 | mA |
| OSCILLATOR SECTION | | | | | | | | |
| Initial Accuracy | $T_J = 25^\circ\text{C}^{(4)}$ | 47 | 52 | 57 | 47 | 52 | 57 | kHz |
| Voltage Stability | $12 \leq V_{CC} \leq 25\text{ V}$ | | 0.2% | 1% | | 0.2% | 1% | |
| Temp. Stability | $T_{MIN} \leq T_A \leq T_{MAX}^{(2)}$ | | 5% | | | 5% | | |
| Amplitude | $V_{PIN\ 4}$ peak-to-peak ⁽²⁾ | | 1.7 | | | 1.7 | | V |

(1) Adjust V_{CC} above the start threshold before setting at 15 V.

(2) These parameters, although specified, are not 100% tested in production.

(3) Temperature stability, sometimes referred to as average temperature coefficient, is described by the equation:

$$\text{Temp Stability} = \frac{V_{REF(max)} - V_{REF(min)}}{T_{J(max)} - T_{J(min)}}$$

$V_{REF(max)}$ and $V_{REF(min)}$ are the maximum and minimum reference voltages measured over the appropriate temperature range. Note that the extremes in voltage do not necessarily occur at the extremes in temperature.

(4) Output frequency equals oscillator frequency for the UC1842 and UC1843.

Output frequency is one half oscillator frequency for the UC1844 and UC1845.

ELECTRICAL CHARACTERISTICS (continued)

Unless otherwise stated, these specifications apply for $-55^{\circ}\text{C} \leq T_A \leq 125^{\circ}\text{C}$ for the UC184X; $-40^{\circ}\text{C} \leq T_A \leq 85^{\circ}\text{C}$ for the UC284X; $0^{\circ}\text{C} \leq T_A \leq 70^{\circ}\text{C}$ for the 384X; $V_{CC} = 15\text{ V}$; $R_T = 10\text{ k}\Omega$; $C_T = 3.3\text{ nF}$, $T_A = T_J$.

| PARAMETER | TEST CONDITIONS | UC1842/3/4/5 UC2842/3/4/5 | | | UC3842/3/4/5 | | | UNIT |
|--------------------------------------|---|------------------------------|------|------|--------------|------|------|---------------|
| | | MIN | TYP | MAX | MIN | TYP | MAX | |
| ERROR AMP SECTION | | | | | | | | |
| Input Voltage | $V_{PIN\ 1} = 2.5\text{ V}$ | 2.45 | 2.50 | 2.55 | 2.42 | 2.50 | 2.58 | V |
| Input Bias Current | | | -0.3 | -1 | | -0.3 | -2 | μA |
| A_{VOL} | $2 \leq V_O \leq 4\text{ V}$ | 65 | 90 | | 65 | 90 | | dB |
| Unity Gain Bandwidth | $T_J = 25^{\circ}\text{C}$ ⁽⁵⁾ | 0.7 | 1 | | 0.7 | 1 | | MHz |
| PSRR | $12 \leq V_{CC} \leq 25\text{ V}$ | 60 | 70 | | 60 | 70 | | dB |
| Output Sink Current | $V_{PIN\ 2} = 2.7\text{ V}$, $V_{PIN\ 1} = 1.1\text{ V}$ | 2 | 6 | | 2 | 6 | | mA |
| Output Source Current | $V_{PIN\ 2} = 2.3\text{ V}$, $V_{PIN\ 1} = 5\text{ V}$ | -0.5 | -0.8 | | -0.5 | -0.8 | | |
| $V_{OUT\ High}$ | $V_{PIN\ 2} = 2.3\text{ V}$, $R_L = 15\text{ k}\Omega$ to ground | 5 | 6 | | 5 | 6 | | V |
| $V_{OUT\ Low}$ | $V_{PIN\ 2} = 2.7\text{ V}$, $R_L = 15\text{ k}\Omega$ to Pin 8 | | 0.7 | 1.1 | | 0.7 | 1.1 | |
| CURRENT SENSE SECTION | | | | | | | | |
| Gain | See ⁽⁶⁾ / ⁽⁷⁾ | 2.85 | 3 | 3.15 | 2.85 | 3 | 3.15 | V/V |
| Maximum Input Signal | $V_{PIN\ 1} = 5\text{ V}$ ⁽⁶⁾ | 0.9 | 1 | 1.1 | 0.9 | 1 | 1.1 | V |
| PSRR | $12 \leq V_{CC} \leq 25\text{ V}$ ⁽⁵⁾ / ⁽⁶⁾ | | 70 | | | 70 | | dB |
| Input Bias Current | | | -2 | -10 | | -2 | -10 | μA |
| Delay to Output | $V_{PIN\ 3} = 0\text{ V}$ to 2 V ⁽⁵⁾ | | 150 | 300 | | 150 | 300 | ns |
| OUTPUT SECTION | | | | | | | | |
| Output Low Level | $I_{SINK} = 20\text{ mA}$ | | 0.1 | 0.4 | | 0.1 | 0.4 | V |
| | $I_{SINK} = 200\text{ mA}$ | | 1.5 | 2.2 | | 1.5 | 2.2 | |
| Output High Level | $I_{SOURCE} = 20\text{ mA}$ | 13 | 13.5 | | 13 | 13.5 | | |
| | $I_{SOURCE} = 200\text{ mA}$ | 12 | 13.5 | | 12 | 13.5 | | |
| Rise Time | $T_J = 25^{\circ}\text{C}$, $C_L = 1\text{ nF}$ ⁽⁵⁾ | | 50 | 150 | | 50 | 150 | ns |
| Fall Time | $T_J = 25^{\circ}\text{C}$, $C_L = 1\text{ nF}$ ⁽⁵⁾ | | 50 | 150 | | 50 | 150 | |
| UNDER-VOLTAGE LOCKOUT SECTION | | | | | | | | |
| Start Threshold | X842/4 | 15 | 16 | 17 | 14.5 | 16 | 17.5 | V |
| | X843/5 | 7.8 | 8.4 | 9.0 | 7.8 | 8.4 | 9.0 | |
| Min. Operating Voltage After Turn On | X842/4 | 9 | 10 | 11 | 8.5 | 10 | 11.5 | |
| | X843/5 | 7.0 | 7.6 | 8.2 | 7.0 | 7.6 | 8.2 | |
| PWM SECTION | | | | | | | | |
| Maximum Duty Cycle | X842/3 | 95% | 97% | 100% | 95% | 97% | 100% | |
| | X844/5 | 46% | 48% | 50% | 47% | 48% | 50% | |
| Minimum Duty Cycle | | | | 0% | | | 0% | |
| TOTAL STANDBY CURRENT | | | | | | | | |
| Start-Up Current | | | 0.5 | 1 | | 0.5 | 1 | mA |
| Operating Supply Current | $V_{PIN\ 2} = V_{PIN\ 3} = 0\text{ V}$ | | 11 | 17 | | 11 | 17 | |
| V_{CC} Zener Voltager | $I_{CC} = 25\text{ mA}$ | 30 | 34 | | 30 | 34 | | V |

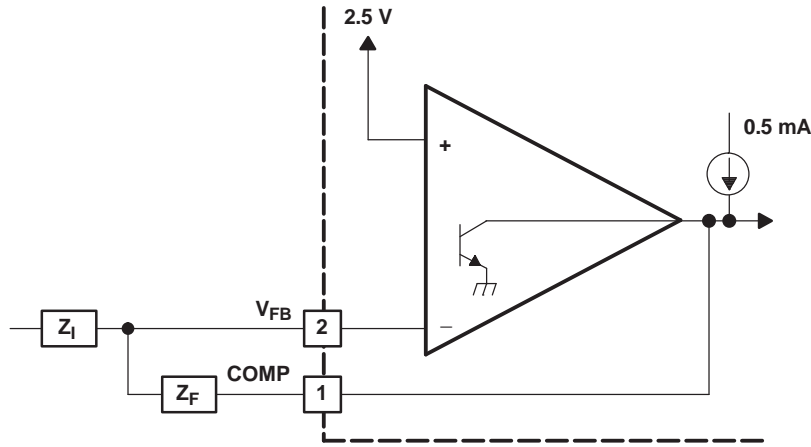
(5) These parameters, although specified, are not 100% tested in production.

(6) Parameter measured at trip point of latch with $V_{PIN\ 2} = 0$.

(7) Gain defined as: $A = \frac{\Delta V_{PIN\ 1}}{\Delta V_{PIN\ 3}}$, $0 \leq V_{PIN\ 3} \leq 0.8\text{ V}$

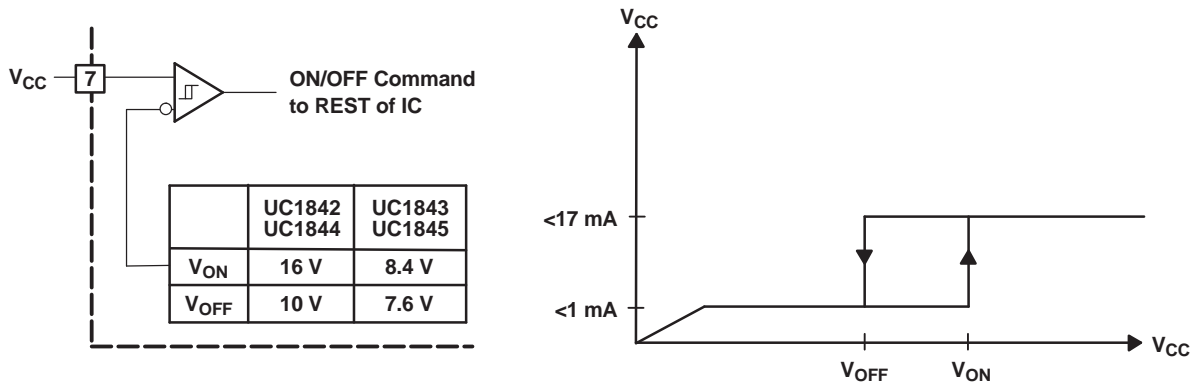
ERROR AMP CONFIGURATION

Error amp can source or sink up to 0.5 mA.



UNDER-VOLTAGE LOCKOUT

During under-voltage lock-out, the output drive is biased to sink minor amounts of current. Pin 6 should be shunted to ground with a bleeder resistor to prevent activating the power switch with extraneous leakage currents.



CURRENT SENSE CIRCUIT

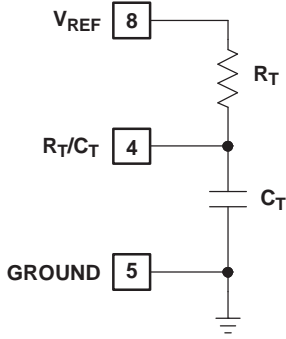
A small RC filter may be required to suppress switch transients.



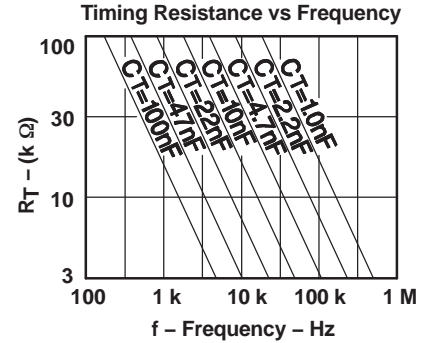
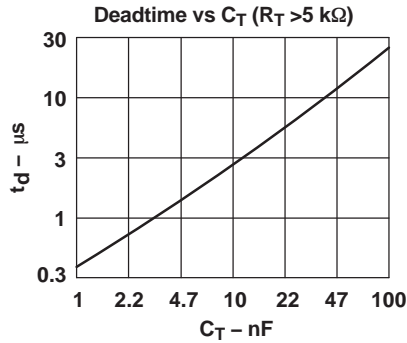
Peak Current (I_S) is Determined By The Formula

$$I_{S\text{MAX}} = \frac{1.0 \text{ V}}{R_S}$$

OSCILLATOR SECTION



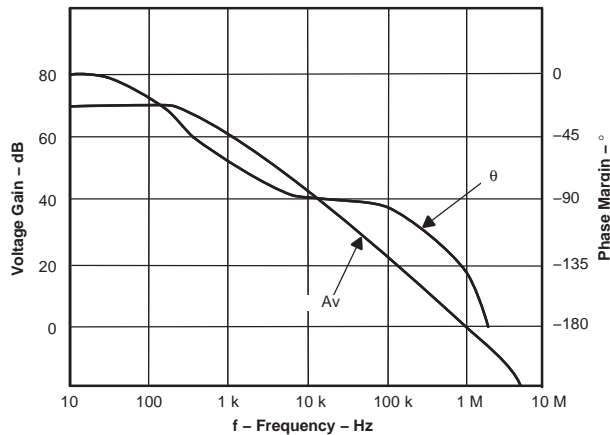
For $R_T > 5 \text{ K} f \sim \frac{1.72}{R_T C_T}$



OUTPUT SATURATION CHARACTERISTICS

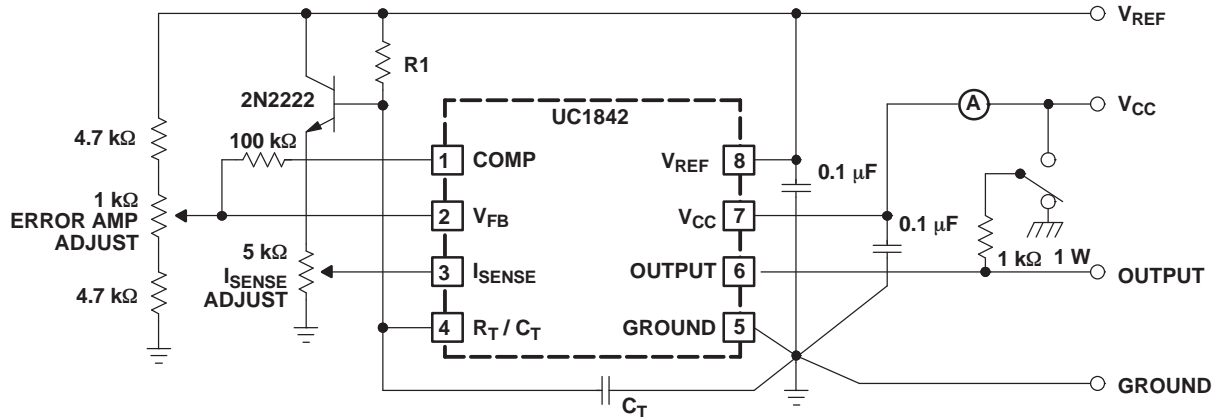


ERROR AMPLIFIER OPEN-LOOP FREQUENCY RESPONSE



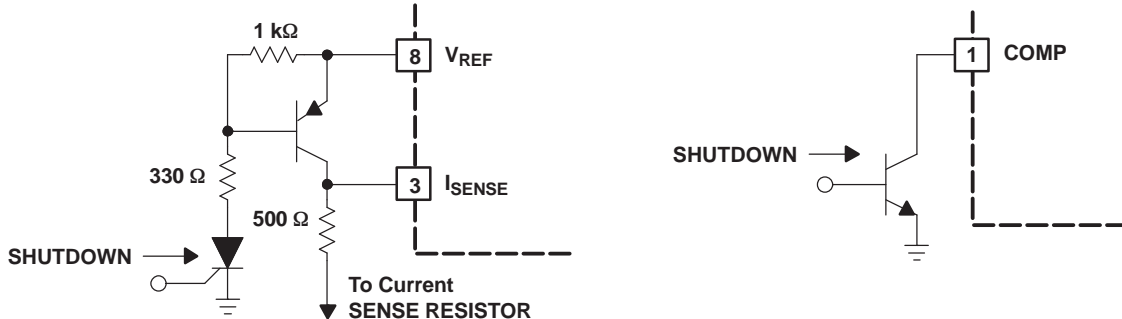
OPEN-LOOP LABORATORY FIXTURE

High peak currents associated with capacitive loads necessitate careful grounding techniques. Timing and bypass capacitors should be connected close to pin 5 in a single point ground. The transistor and 5k potentiometer are used to sample the oscillator waveform and apply an adjustable ramp to pin 3.



SHUTDOWN TECHNIQUES

Shutdown of the UC1842 can be accomplished by two methods; either raise pin 3 above 1 V or pull pin 1 below a voltage two diode drops above ground. Either method causes the output of the PWM comparator to be high (refer to block diagram). The PWM latch is reset dominant so that the output will remain low until the next clock cycle after the shutdown condition at pin 1 and/or 3 is removed. In one example, an externally latched shutdown may be accomplished by adding an SCR which will be reset by cycling V_{CC} below the lower UVLO threshold. At this point the reference turns off, allowing the SCR to reset.



PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| 5962-8670401PA | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| 5962-8670401XA | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-8670402PA | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| 5962-8670402XA | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-8670403PA | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| 5962-8670403XA | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-8670404DA | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| 5962-8670404PA | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| 5962-8670404XA | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1842J | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1842J883B | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1842L883B | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1842W | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1843J | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1843J883B | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1843L | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1843L883B | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1843W | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1844J | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1844J883B | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1844L883B | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1845J | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1845J883B | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1845L | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1845L883B | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| UC1845W | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| UC1845W883B | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| UC2842D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2842J | OBSOLETE | CDIP | JG | 8 | | TBD | Call TI | Call TI |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| UC2842N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2842NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2842P | OBSOLETE | PDIP | P | 8 | | TBD | Call TI | Call TI |
| UC2843D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2843J | OBSOLETE | CDIP | JG | 8 | | TBD | Call TI | Call TI |
| UC2843N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2843NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2844D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2844N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2844NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2845D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| | | | | | | no Sb/Br) | | |
| UC2845D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC2845J | OBSOLETE | CDIP | JG | 8 | | TBD | Call TI | Call TI |
| UC2845N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC2845NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3842D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3842N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3842NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3842P | OBSOLETE | PDIP | P | 8 | | TBD | Call TI | Call TI |
| UC3843D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| UC3843DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3843N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3843NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3843P | OBSOLETE | PDIP | P | 8 | | TBD | Call TI | Call TI |
| UC3843QTR | OBSOLETE | PLCC | FN | 20 | | TBD | Call TI | Call TI |
| UC3844D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3844N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3844NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3844P | OBSOLETE | PDIP | P | 8 | | TBD | Call TI | Call TI |
| UC3845AJ | ACTIVE | CDIP | JG | 8 | 1 | TBD | A42 | N / A for Pkg Type |
| UC3845D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845D8 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845D8G4 | ACTIVE | SOIC | D | 8 | 75 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845D8TR | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845D8TRG4 | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845DTR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845DTRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC3845N | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3845NG4 | ACTIVE | PDIP | P | 8 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pkg Type |
| UC3845P | OBSOLETE | PDIP | P | 8 | | TBD | Call TI | Call TI |

(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.

Important Information and Disclaimer:The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF UC1842, UC1843, UC1844, UC1845, UC3842, UC3843, UC3844, UC3845, UC3845AM :

- Catalog: [UC3842M](#), [UC3845A](#)
- Space: [UC1842-SP](#), [UC1843-SP](#), [UC1844-SP](#), [UC1845-SP](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application

TAPE AND REEL INFORMATION



QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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 |
|------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| UC2842D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC2842DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC2843D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC2843DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC2844D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC2844DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC2845D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC2845DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC3842D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC3842DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC3843D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC3843DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC3844D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC3844DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| UC3845D8TR | SOIC | D | 8 | 2500 | 330.0 | 12.4 | 6.4 | 5.2 | 2.1 | 8.0 | 12.0 | Q1 |
| UC3845DTR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|------------|--------------|-----------------|------|------|-------------|------------|-------------|
| UC2842D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC2842DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC2843D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC2843DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC2844D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC2844DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC2845D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC2845DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC3842D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC3842DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC3843D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC3843DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC3844D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC3844DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |
| UC3845D8TR | SOIC | D | 8 | 2500 | 340.5 | 338.1 | 20.6 |
| UC3845DTR | SOIC | D | 14 | 2500 | 333.2 | 345.9 | 28.6 |

JG (R-GDIP-T8)

CERAMIC DUAL-IN-LINE



4040107/C 08/96

- NOTES: A. All linear dimensions are in inches (millimeters).
 B. This drawing is subject to change without notice.
 C. This package can be hermetically sealed with a ceramic lid using glass frit.
 D. Index point is provided on cap for terminal identification.
 E. Falls within MIL STD 1835 GDIP1-T8

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK



- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 - D. Index point is provided on cap for terminal identification only.
 - E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB

P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



4040082/E 04/2010

- 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-G14)

PLASTIC SMALL OUTLINE



4040047-5/M 06/11

- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 -  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.
 -  Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
 - E. Reference JEDEC MS-012 variation AB.

FN (S-PQCC-J**)

PLASTIC J-LEADED CHIP CARRIER

20 PIN SHOWN



- NOTES: A. All linear dimensions are in inches (millimeters).
 B. This drawing is subject to change without notice.
 C. Falls within JEDEC MS-018

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

TI assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using TI components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

TI products are not authorized for use in safety-critical applications (such as life support) where a failure of the TI product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use. Buyers represent that they have all necessary expertise in the safety and regulatory ramifications of their applications, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of TI products in such safety-critical applications, notwithstanding any applications-related information or support that may be provided by TI. Further, Buyers must fully indemnify TI and its representatives against any damages arising out of the use of TI products in such safety-critical applications.

TI products are neither designed nor intended for use in military/aerospace applications or environments unless the TI products are specifically designated by TI as military-grade or "enhanced plastic." Only products designated by TI as military-grade meet military specifications. Buyers acknowledge and agree that any such use of TI products which TI has not designated as military-grade is solely at the Buyer's risk, and that they are solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI products are neither designed nor intended for use in automotive applications or environments unless the specific TI products are designated by TI as compliant with ISO/TS 16949 requirements. Buyers acknowledge and agree that, if they use any non-designated products in automotive applications, TI will not be responsible for any failure to meet such requirements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

Products

| | |
|-----------------------------|--|
| Audio | www.ti.com/audio |
| Amplifiers | amplifier.ti.com |
| Data Converters | dataconverter.ti.com |
| DLP® Products | www.dlp.com |
| DSP | dsp.ti.com |
| Clocks and Timers | www.ti.com/clocks |
| Interface | interface.ti.com |
| Logic | logic.ti.com |
| Power Mgmt | power.ti.com |
| Microcontrollers | microcontroller.ti.com |
| RFID | www.ti-rfid.com |
| RF/IF and ZigBee® Solutions | www.ti.com/lprf |

Applications

| | |
|-------------------------------|--|
| Communications and Telecom | www.ti.com/communications |
| Computers and Peripherals | www.ti.com/computers |
| Consumer Electronics | www.ti.com/consumer-apps |
| Energy and Lighting | www.ti.com/energy |
| Industrial | www.ti.com/industrial |
| Medical | www.ti.com/medical |
| Security | www.ti.com/security |
| Space, Avionics and Defense | www.ti.com/space-avionics-defense |
| Transportation and Automotive | www.ti.com/automotive |
| Video and Imaging | www.ti.com/video |
| Wireless | www.ti.com/wireless-apps |

TI E2E Community Home Page

e2e.ti.com

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2011, Texas Instruments Incorporated