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UC1846/7 UC2846/7 UC3846/7

Current Mode PWM Controller

FEATURES

- Automatic Feed Forward Compensation
- Programmable Pulse-by-Pulse Current Limiting
- Automatic Symmetry Correction in Push-pull Configuration
- Enhanced Load Response Characteristics
- Parallel Operation Capability for Modular Power Systems
- Differential Current Sense Amplifier with Wide Common Mode Range
- Double Pulse Suppression
- 500mA (Peak) Totem-pole Outputs
- ±1% Bandgap Reference
- Under-voltage Lockout
- Soft Start Capability
- Shutdown Terminal
- 500kHZ Operation

BLOCK DIAGRAM

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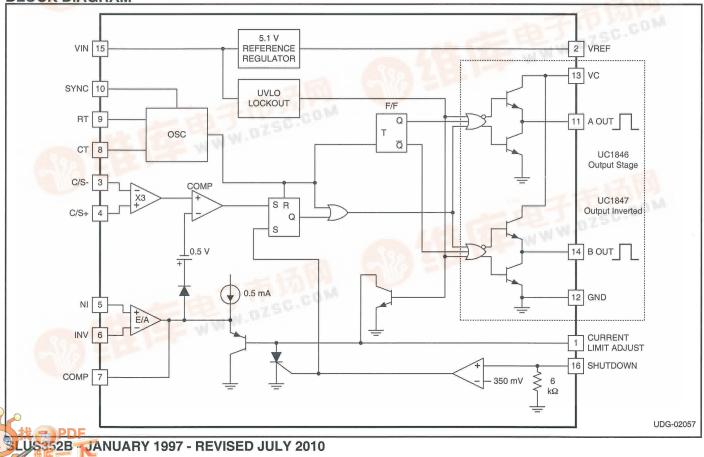
DESCRIPTION

The UC1846/7 family of control ICs provides all of the necessary features to implement fixed frequency, current mode control schemes while maintaining a minimum external parts count. The superior performance of this technique can be measured in improved line regulation, enhanced load response characteristics, and a simpler, easier-to-design control loop. Topological advantages include inherent pulse-by-pulse current limiting capability, automatic symmetry correction for push-pull converters, and the ability to parallel "power modules" while maintaining equal current sharing.

Protection circuitry includes built-in under-voltage lockout and programmable current limit in addition to soft start capability. A shutdown function is also available which can initiate either a complete shutdown with automatic restart or latch the supply off.

Other features include fully latched operation, double pulse sup-* pression, deadline adjust capability, and a $\pm 1\%$ trimmed bandgap reference.

The UC1846 features low outputs in the OFF state, while the UC1847 features high outputs in the OFF state.

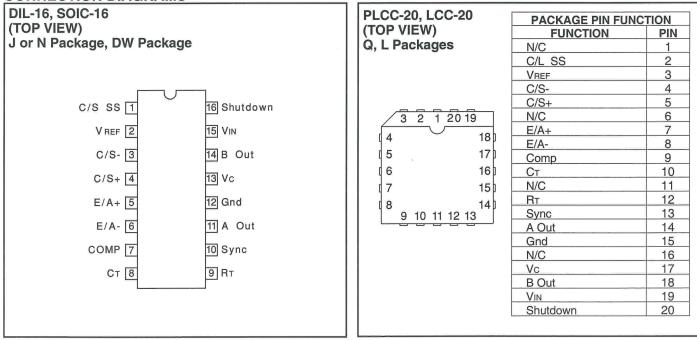


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| Supply Voltage (Pin 15)+40V | / |
|--|---|
| Collector Supply Voltage (Pin 13)+40V | / |
| Output Current, Source or Sink (Pins 11, 14) 500mA | 4 |
| Analog Inputs (Pins 3, 4, 5, 6, 16)0.3V to +VIN | V |
| Reference Output Current (Pin 2)30mA | 4 |
| Sync Output Current (Pin 10)5mA | 4 |
| Error Amplifier Output Current (Pin 7)5mA | 4 |
| Soft Start Sink Current (Pin 1) 50mA | 4 |
| Oscillator Charging Current (Pin 9) 5mA | 4 |
| Power Dissipation at TA=25°C 1000mW | V |
| Power Dissipation at Tc=25°C 2000mW | 1 |
| Storage Temperature Range65°C to +150°C |) |
| Lead Temperature (soldering, 10 seconds)+300°C |) |
| | |

Note 1. All voltages are with respect to Ground, Pin 13. Currents are positive into, negative out of the speficied terminal. Consult Packaging Section of Databook for thermal limitations and considerations of packages. Pin numbers refer to DIL and SOIC packages only.

CONNECTION DIAGRAMS



ELECTRICAL CHARACTERISTICS (Unless otherwise stated, these specifications apply for Ta=-55°C to +125°C for UC1846/7; -40°C to +85°C for the UC2846/7; and 0°C to +70°C for the UC3846/7; VIN=15V, RT=10k, CT=4.7nF, Ta=TJ.)

| PARAMETER | TEST CONDITIONS | | 846/UC 846/UC | | UC3 | 6 | | |
|------------------------------|--------------------------------------|------|------------------|------|------|------|------|-------|
| | | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | UNITS |
| Reference Section | | | | | | | | |
| Output Voltage | TJ=25°C, IO=1mA | 5.05 | 5.10 | 5.15 | 5.00 | 5.10 | 5.20 | V |
| Line Regulation | VIN=8V to 40V | | 5 | 20 | | 5 | 20 | mV |
| Load Regulation | IL=1mA to 10mA | | 3 | 15 | | 3 | 15 | mV |
| Temperature Stability | Over Operating Range, (Note 2) | | 0.4 | | | 0.4 | | mV/°C |
| Total Output Variation | Line, Load, and Temperature (Note 2) | 5.00 | | 5.20 | 4.95 | | 5.25 | V |
| Output Noise Voltage | 10Hz ≤ f ≤10kHz, TJ=25°C (Note 2) | | 100 | | | 100 | | μV |
| Long Term Stability | TJ=125°C, 1000 Hrs. (Note 2) | | 5 | | | 5 | | mV |
| Short Circuit Output Current | VREF=0V | -10 | -45 | | -10 | -45 | | mA |

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ELECTRICAL (Unless otherwise stated, these specifications apply for TA=-55°C to +125°C for UC1846/7; -40°C to +85°C for the UC2846/7; and 0°C to +70°C for the UC3846/7; VIN=15V, RT=10k, CT=4.7nF, TA=TJ.)

| PARAMETER | TEST CONDITIONS | | 846/UC 846/UC | | UC3846/UC3847 | | | |
|------------------------------|-------------------------------------|------|------------------|--------|---------------|------|--------|-------|
| | | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | UNITS |
| Oscillator Section | | | | | | | | |
| Initial Accuracy | TJ=25°C | 39 | 43 | 47 | 39 | 43 | 47 | kHz |
| Voltage Stability | VIN=8V to 40V | | -1 | 2 | | -1 | 2 | % |
| Temperature Stability | Over Operating Range (Note 2) | | -1 | | | -1 | | % |
| Sync Output High Level | | 3.9 | 4.35 | | 3.9 | 4.35 | | V |
| Sync Output Low Level | | | 2.3 | 2.5 | | 2.3 | 2.5 | V |
| Sync Input High Level | Pin 8=0V | 3.9 | | | 3.9 | | | V |
| Sync Input Low Level | Pin 8=0V | | | 2.5 | | | 2.5 | V |
| Sync Input Current | Sync Voltage=3.9V, Pin 8=0V | | 1.3 | 1.5 | | 1.3 | 1.5 | mA |
| Error Amp Section | | | | | _ | | | |
| Input Offset Voltage | | | 0.5 | 5 | | 0.5 | 10 | mV |
| Input Bias Current | | | -0.6 | -1 | | -0.6 | -2 | μA |
| Input Offset Current | | | 40 | 250 | | 40 | 250 | nA |
| Common Mode Range | VIN=8V to 40V | 0 | | VIN-2V | 0 | | VIN-2V | V |
| Open Loop Voltage Gain | ΔVo=1.2 to 3V, Vcm=2V | 80 | 105 | | 80 | 105 | | dB |
| Unity Gain Bandwidth | TJ=25°C (Note 2) | 0.7 | 1.0 | | 0.7 | 1.0 | | MHz |
| CMRR | V _{CM} =0V to 38V, VIN=40V | 75 | 100 | | 75 | 100 | | dB |
| PSRR | VIN=8V to 40V | 80 | 105 | | 80 | 105 | | dB |
| Output Sink Current | VID=-15mV to -5V, VPIN 7=1.2V | 2 | 6 | | 2 | 6 | | mA |
| Output Source Current | VID=15mV to 5V, VPIN 7=2.5V | -0.4 | -0.5 | | -0.4 | -0.5 | | mA |
| High Level Output Voltage | RL=(Pin 7) 15kΩ | 4.3 | 4.6 | | 4.3 | 4.6 | | V |
| Low Level Output Voltage | | | 0.7 | 1 | | 0.7 | 1 | V |
| Current Sense Amplifier Sect | lion | | | | | | | |
| Amplifier Gain | VPIN 3=0V, Pin 1 Open (Notes 3 & 4) | 2.5 | 2.75 | 3.0 | 2.5 | 2.75 | 3.0 | V |
| Maximum Differential Input | Pin 1 Open (Note 3) | | | | | | | |
| Signal (VPIN 4-VPIN 3) | RL (Pin 7)=15kW | 1.1 | 1.2 | | 1.1 | 1.2 | | V |
| Input Offset Voltage | VPIN 1=0.5V, Pin 7 Open (Note 3) | | 5 | 25 | | 5 | 25 | mV |
| CMRR | Vcm=1V to 12V | 60 | 83 | | 60 | 83 | | dB |
| PSRR | VIN=8V to 40V | 60 | 84 | | 60 | 84 | | dB |
| Input Bias Current | VPIN 1=0.5V, Pin 7 Open (Note 3) | | -2.5 | -10 | | -2.5 | -10 | μA |
| Input Offset Current | VPIN 1=0.5V, Pin 7 Open (Note 3) | | 0.08 | 1 | | 0.08 | 1 | μA |
| Input Common Mode Range | | 0 | | VIN-3 | 0 | | VIN-3 | V |
| Delay to Outputs | TJ=25°C, (Note 2) | | 200 | 500 | | 200 | 500 | ns |
| Current Limit Adjust Section | | | | | | | | |
| Current Limit Offset | VPIN 3=0V, VPIN 4=0V, Pin 7 Open | | | | | | | |
| | (Note 3) | 0.45 | 0.5 | 0.55 | 0.45 | 0.5 | 0.55 | V |
| Input Bias Current | VPIN 5=VREF, VPIN 6=0V | | -10 | -30 | | -10 | -30 | μA |
| Shutdown Terminal Section | | | | | | | | |
| Threshold Voltage | | 250 | 350 | 400 | 250 | 350 | 400 | mV |
| Input Voltage Range | | 0 | | Vin | 0 | | Vin | V |
| Minimum Latching Current | (Note 6) | | | | | | | |
| (IPIN 1) | | 3.0 | 1.5 | | 3.0 | 1.5 | | mA |

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UC1846/7 UC2846/7 UC3846/7

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ELECTRICAL

(Unless otherwise stated, these specifications apply for TA=-55°C to +125°C for UC1846/7; CHARACTERISTICS (cont.) -40°C to +85°C for the UC2846/7; and 0°C to +70°C for the UC3846/7; VIN=15V, RT=10k, CT=4.7nF, TA=TJ.)

| PARAMETER | TEST CONDITIONS | | 846/UC 846/UC | | UC3846/UC3847 | | | |
|------------------------------|--------------------------|------|------------------|------|---------------|------|------|-------|
| | | MIN. | TYP. | MAX. | MIN. | TYP. | MAX. | UNITS |
| Shutdown Terminal Section | (cont.) | | | | | | | |
| Maximum Non-Latching | (Note 7) | | | | | | | |
| Current (IPIN 1) | | | 1.5 | 0.8 | | 1.5 | 0.8 | mA |
| Delay to Outputs | TJ=25°C (Note 2) | | 300 | 600 | | 300 | 600 | ns |
| Output Section | | | | | | | | |
| Collector-Emitter Voltage | | 40 | | | 40 | | | V |
| Collector Leakage Current | Vc=40V (Note 5) | | | 200 | | | 200 | μA |
| Output Low Level | ISINK=20mA | | 0.1 | 0.4 | | 0.1 | 0.4 | V |
| 6. | ISINK=100mA | | 0.4 | 2.1 | | 0.4 | 2.1 | V |
| Output High Level | ISOURCE=20mA | 13 | 13.5 | | 13 | 13.5 | | V |
| | ISOURCE=100mA | 12 | 13.5 | | 12 | 13.5 | | V |
| Rise Time | CL=1nF, TJ=25°C (Note 2) | | 50 | 300 | | 50 | 300 | ns |
| Fall Time | CL=1nF, TJ=25°C (Note 2) | | 50 | 300 | | 50 | 300 | ns |
| Under-Voltage Lockout Secti | on | | | | | | | |
| Start-Up Threshold | | | 7.7 | 8.0 | | 7.7 | 8.0 | V |
| Threshold Hysteresis | | | 0.75 | | | 0.75 | | V |
| Total Standby Current | | | | | | | | |
| Supply Current | | | 17 | 21 | | 17 | 21 | mA |

Note 2. These parameters, although ensured over the recommended operating conditions, are not 100% tested in production. Note 3. Parameter measured at trip point of latch with VPIN 5 = VREF, VPIN 6 = 0V.

Note 4. Amplifier gain defined as: $G = \frac{\Delta V_{PIN7}}{\Delta V}$; $V_{PIN4} = 0$ to 1.0V ΔV_{PIN4}

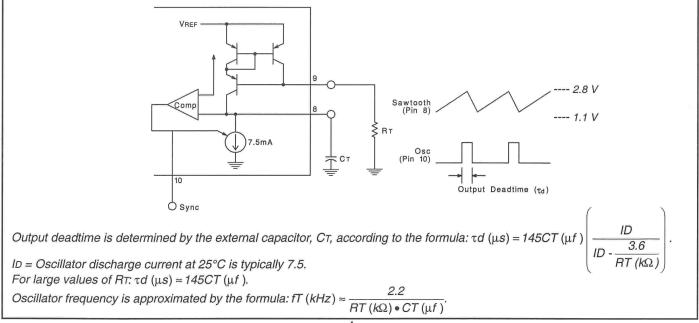
Note 5. Applies to UC1846/UC2846/UC3846 only due to polarity of outputs.

Note 6. Current into Pin 1 ensured to latch circuit in shutdown state.

Note 7. Current into Pin 1 ensured not to latch circuit in shutdown state.

APPLICATIONS DATA

Oscillator Circuit

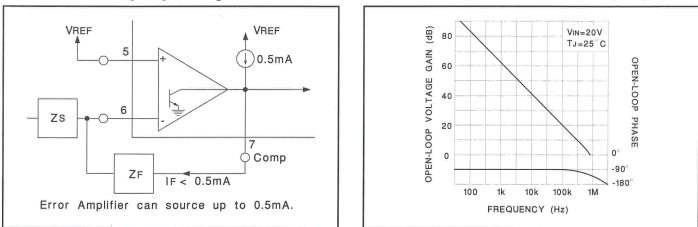


查询"UC3846M"供应商 APPLICATIONS DATA (cont.)

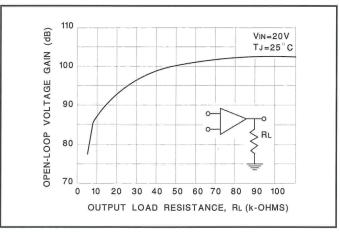
UC1846/7 UC2846/7 UC3846/7



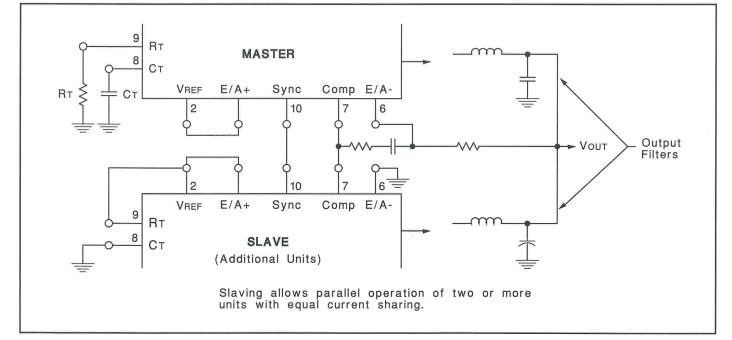
Error Amp Gain and Phase vs Frequency





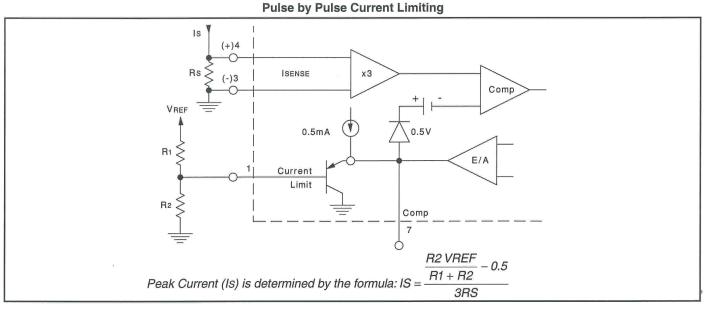




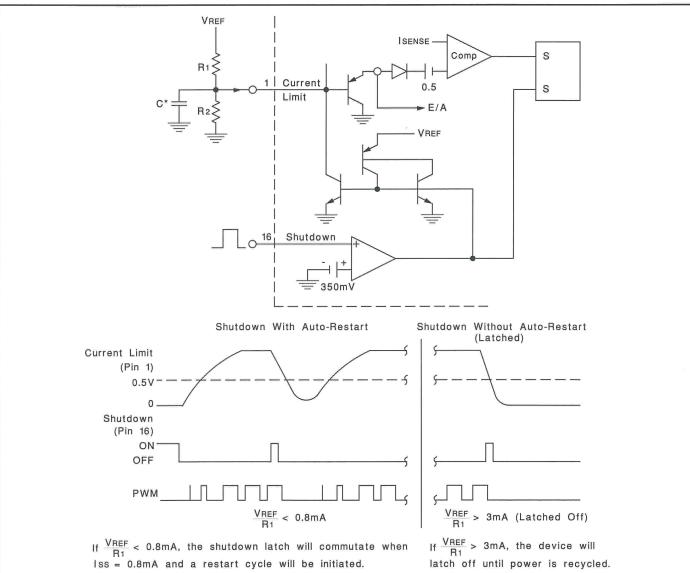


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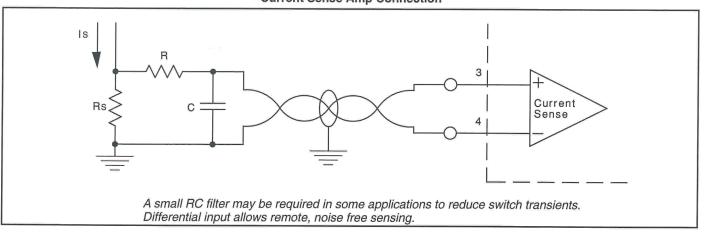


Soft Start and Shutdown /Restart Functions

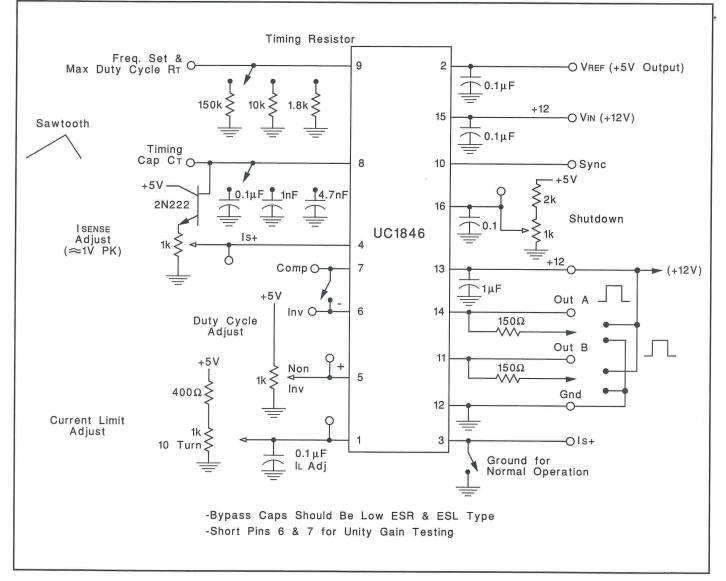


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查询"UC3846M"供应商 REVISION HISTORY

SLUS352A to SLUS352B July 2010:

1) Updated block diagram, page 1.

2) Added peak and vally voltages to the Oscillator Circuit, page 4.





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PACKAGING INFORMATION

| - | | | | | | | | | |
|---|--------------------|-----------------------|--------------|--------------------|------|-------------|----------------------------|----------------------|--------------|
| | Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Pe |
| | 5962-86806012A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pk |
| | 5962-8680601EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pk |
| | UC1846J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pk |
| | UC1846J/80257 | OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| | UC1846J/80364 | OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| | UC1846J/80619 | OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| | UC1846J883B | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pk |
| | UC1846L883B | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pk |
| | UC1847J | OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| | UC1847J883B | OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| | UC1847L | OBSOLETE | LCCC | FK | 20 | | TBD | Call TI | Call TI |
| | UC1847L883B | OBSOLETE | LCCC | FK | 20 | | TBD | Call TI | Call TI |
| | UC2846DW | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| | UC2846DWG4 | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| | UC2846DWTR | ACTIVE | SOIC | DW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| | UC2846DWTR/81265 | OBSOLETE | SOIC | DW | 16 | | TBD | Call TI | Call TI |
| | UC2846DWTR/81265G4 | OBSOLETE | SOIC | DW | 16 | | TBD | Call TI | Call TI |
| | UC2846DWTRG4 | ACTIVE | SOIC | DW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| | UC2846J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pk |
| | UC2846N | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| | UC2846NG4 | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| | | | | | | | | | |

PACKAG



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| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Pe |
|------------------|-----------------------|--------------|--------------------|------|-------------|----------------------------|----------------------|--------------|
| UC2846QTR | ACTIVE | PLCC | FN | 20 | 1000 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC2846QTRG3 | ACTIVE | PLCC | FN | 20 | 1000 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC2847DW | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC2847DWG4 | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC2847N | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| UC2847NG4 | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| UC3846DW | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC3846DWG4 | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC3846DWTR | ACTIVE | SOIC | DW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC3846DWTRG4 | ACTIVE | SOIC | DW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| UC3846J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pk |
| UC3846N | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| UC3846NG4 | ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| UC3846Q | ACTIVE | PLCC | FN | 20 | 46 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC3846QG3 | ACTIVE | PLCC | FN | 20 | 46 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC3846QTR | ACTIVE | PLCC | FN | 20 | 1000 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC3846QTRG3 | ACTIVE | PLCC | FN | 20 | 1000 | Green (RoHS & no Sb/Br) | CU SN | Level-2-260 |
| UC3847DW | ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |



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| Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Pe |
|-----------------------|------------------------------|---|--|---|---|---|--|
| ACTIVE | SOIC | DW | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260 |
| OBSOLETE | CDIP | J | 16 | | TBD | Call TI | Call TI |
| ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| ACTIVE | PDIP | Ν | 16 | 25 | Green (RoHS & no Sb/Br) | CU NIPDAU | N / A for Pk |
| | ACTIVE OBSOLETE ACTIVE | ACTIVE SOIC OBSOLETE CDIP ACTIVE PDIP | ACTIVE SOIC Dw OBSOLETE CDIP J ACTIVE PDIP N | DrawingACTIVESOICDW16OBSOLETECDIPJ16ACTIVEPDIPN16 | DrawingACTIVESOICDW1640OBSOLETECDIPJ1625ACTIVEPDIPN1625 | DrawingACTIVESOICDW1640Green (RoHS & no Sb/Br)OBSOLETECDIPJ16TBDACTIVEPDIPN1625Green (RoHS & no Sb/Br)ACTIVEPDIPN1625Green (RoHS & no Sb/Br) | DrawingBall FinishACTIVESOICDW1640Green (RoHS & no Sb/Br)CU NIPDAU & no Sb/Br)OBSOLETECDIPJ16TBDCall TIACTIVEPDIPN1625Green (RoHS & no Sb/Br)CU NIPDAU & no Sb/Br)ACTIVEPDIPN1625Green (RoHS & CU NIPDAU & no Sb/Br) |

⁽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 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. 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 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 **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, 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 retard in homogeneous material)

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

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OTHER QUALIFIED VERSIONS OF UC1846, UC1847, UC2846, UC2846M, UC3846, UC3846M, UC3847 :

• Catalog: UC3846, UC3847, UC2846, UC3846M, UC3846





• Enhanced Product: UC1846-EP, UC1846-EP

- Military: UC2846M, UC1846, UC1847
- Space: UC1846-SP, UC1846-SP

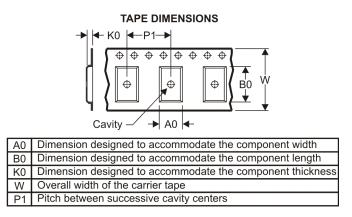
NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Enhanced Product Supports Defense, Aerospace and Medical Applications
- Military QML certified for Military and Defense Applications
- Space Radiation tolerant, ceramic packaging and qualified for use in Space-based application

Texas Instruments 查询"UC3846M"供应商

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



| *All dimensions are nominal | | | | | | | | | | 1 | | |
|-----------------------------|------|--------------------|----|------|--------------------------|--------------------------|------------|------------|------------|------------|-----------|------------------|
| Device | | Package Drawing | | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
| UC2846DWTR | SOIC | DW | 16 | 2000 | 330.0 | 16.4 | 10.85 | 10.8 | 2.7 | 12.0 | 16.0 | Q1 |
| UC2846QTR | PLCC | FN | 20 | 1000 | 330.0 | 16.4 | 10.3 | 10.3 | 4.9 | 12.0 | 16.0 | Q1 |
| UC3846DWTR | SOIC | DW | 16 | 2000 | 330.0 | 16.4 | 10.85 | 10.8 | 2.7 | 12.0 | 16.0 | Q1 |
| UC3846QTR | PLCC | FN | 20 | 1000 | 330.0 | 16.4 | 10.3 | 10.3 | 4.9 | 12.0 | 16.0 | Q1 |



PACKAGE MATERIALS INFORMATION

23-Jul-2010



*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|------------|--------------|-----------------|------|------|-------------|------------|-------------|
| UC2846DWTR | SOIC | DW | 16 | 2000 | 346.0 | 346.0 | 33.0 |
| UC2846QTR | PLCC | FN | 20 | 1000 | 346.0 | 346.0 | 33.0 |
| UC3846DWTR | SOIC | DW | 16 | 2000 | 346.0 | 346.0 | 33.0 |
| UC3846QTR | PLCC | FN | 20 | 1000 | 346.0 | 346.0 | 33.0 |

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