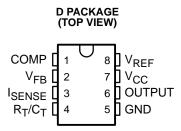
UC1842A-EP, UC1843A-EP, UC1844A-EP, UC1845A-EP CURRENT-MODE PWM CONTROLLER

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- Controlled Baseline
 - One Assembly/Test Site, One Fabrication Site
- Extended Temperature Performance of -55°C to 125°C
- Enhanced Diminishing Manufacturing Sources (DMS) Support
- Enhanced Product Change Notification
- Qualification Pedigree[†]
- Optimized for Off-line and DC to DC Converters
- Low Start Up Current (<0.5 mA)
- Trimmed Oscillator Discharge Current

† Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such qualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.

- 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 UC1842A/3A/4A/5A family of control ICs is a pin for pin compatible improved version of the UC3842/3/4/5 family. Providing the necessary features to control current mode switched mode power supplies, this family has the following improved features. Start up current is guaranteed to be less than 0.5 mA. Oscillator discharge is trimmed to 8.3 mA. During under voltage lockout, the output stage can sink at least 10 mA at less than 1.2 V for V_{CC} over 5 V.

The difference between members of this family are shown in the table below.

| PART NUMBER | UVLO ON | UVLO OFF | MAXIMUM DUTY CYCLE |
|-------------|---------|----------|--------------------|
| UC1842A | 16 V | 10 V | <100% |
| UC1843A | 8.5 V | 7.9 V | <100% |
| UC1844A | 16 V | 10 V | <50% |
| UC1845A | 8.5 V | 7.9 V | <50% |

ORDERING INFORMATION[‡]

| TA | PACK | AGE [‡] | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|---------|-----------------------|--------------------------|---------------------|
| –55°C to 125°C | SOP – D | Tape and reel | UC1842AMDREP | 1842AME |
| –55°C to 125°C | SOP – D | SOP – D Tape and reel | | 1843AME |
| –55°C to 125°C | SOP – D | Tape and reel | UC1844AMDREP | 1844AME |
| −55°C to 125°C | SOP – D | Tape and reel | UC1845AMDREP | 1845AME |

[‡] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



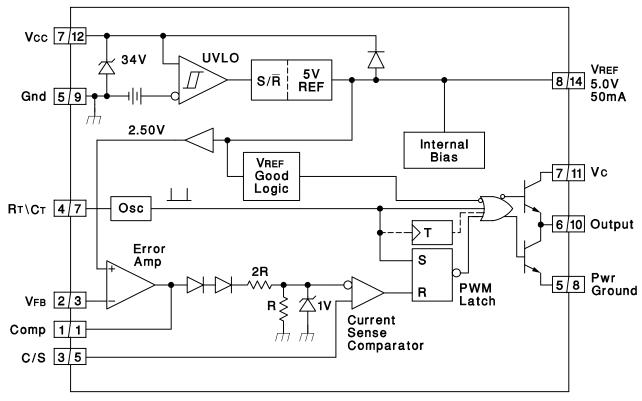
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



UC1842A-EP, UC1843A-EP, UC1844A-EP, UC1845A-EP CURRENT-MODE PWM CONTROLLER

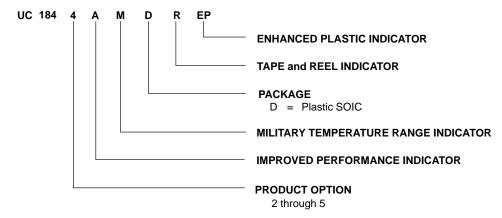
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block diagram



- NOTES: 1. A = DIL-8 Pin Number. B = SO-14 Pin Number.
 - 2. Toggle flip flop used only in 1844A and 1845A.

Ordering Information



UC1842A-EP, UC1843A-EP, UC1844A-EP, UC1845A-EP CURRENT-MODE PWM CONTROLLER

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| absolute maximum ratings over operating free-air temperature range | e (unless otherwise noted)†‡ |
|--|------------------------------|
| V _{CC} voltage (low impedance source) | 30 V |
| V _{CC} voltage (I _{CC} mA) | self limiting |
| Output current, IO | ±1 A |
| Output energy (capacitive load) | |
| Analog Inputs (pins 3, 5) | |
| Error Amp Output Sink current | 10 mA |
| Power Dissipation at T _A < +25°C (D package) | |
| Package thermal impedance, θ _{JA} (see Note 1): D (8-pin) package | 97°C/W |
| Storage temperature range, T _{stg} | 65°C to 150°C |
| Lead temperature soldering 1,6 mm (1/16 inch) from case for 10 seconds . | 260°C |

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTE 1: Long term high-temperature storage and/or extended use at maximum recommended operating conditions may result in a reduction of overall device life. See http://www.ti.com/ep_quality for additional information on enhanced plastic packaging.

electrical characteristics, $T_A = -55^{\circ}C$ to 125°C for the UC184xAM-EP, $V_{CC} = 15$ V (see Note 1), $R_T = 10~k\Omega$, $C_T = 3.3$ nF, and $T_A = T_J$ (unless otherwise stated)

| PARAMETER | TE | TEST CONDITIONS | | | | MAX | UNITS |
|--------------------------------|-----------------------------------|-----------------------|-----------------------------|------|------|------|-------|
| Reference Section | | | | | | | |
| Output voltage | $T_J = 25^{\circ}C$, | I _O = 1 mA | | 4.95 | 5.0 | 5.05 | V |
| Line regulation voltage | V _{IN} = 12 V to 25 V | 1 | | | 6 | 20 | mV |
| Load regulation voltage | I _O = 1 mA to 20 m | A | | | 6 | 25 | mV |
| Temperature stability | See Notes 2 and 3 | See Notes 2 and 3 | | | | 0.4 | mV/°C |
| Total output variation voltage | Line, Load, Temp. | Line, Load, Temp. | | | | 5.1 | V |
| Output noise voltage | f = 10 Hz to 10 kH: See Note 2 | Z, | T _J = 25°C | | 50 | | μV |
| Long term stability | 1000 hours, | See Note 2 | T _A = 125°C | | 5 | 25 | mV |
| Output short-circuit current | | | | -30 | -100 | -180 | mA |
| Oscillator Section | | | | | | | |
| Initial accuracy | See Note 4 | | T _J = 25°C | 47 | 52 | 57 | kHz |
| Voltage stability | V _{CC} = 12 V to 25 | V | | | 0.2 | 1 | % |
| Temperature stability | $T_A = MIN \text{ to } MAX,$ | See Note 2 | | | 5 | | % |
| Amplitude peak-to-peak | V pin 7, | See Note 2 | | | 1.7 | | V |
| Dischause summer | V = = 7 0 V | Con Note 5 | T _J = 25°C | 7.8 | 8.3 | 8.8 | ^ |
| Discharge current | V pin 7 = 2 V, | See Note 5 | T _J = Full range | 7.5 | | 8.8 | mA |



[‡] Unless otherwise indicated, voltages are reference to ground and currents are positive into and negative out of the specified terminals.

UC1842A-EP, UC1843A-EP, UC1844A-EP, UC1845A-EP CURRENT-MODE PWM CONTROLLER

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electrical characteristics, T_A = -55°C to 125°C for the UC184xAM-EP, V_{CC} = 15 V (see Note 1), R_T = 10 $k\Omega$, C_T = 3.3 nF, and T_A = T_J (unless otherwise stated)

| PARAMETER | | TEST CONDITIONS | | | | MAX | UNITS |
|---|-----------------------------|--|-----------------------|------|------|------|-------|
| Error Amplifier Section | | | | • | | | |
| Input voltage | COMP = 2.5 V | | | 2.45 | 2.5 | 2.55 | ٧ |
| Input bias current | | | | | -0.3 | -1 | μΑ |
| Open loop voltage gain (A _{VOL)} | V _O = 2 V to 4 V | , | | 65 | 90 | | dB |
| Unity gain bandwidth | See Note 2 | | T _J = 25°C | 0.7 | 1 | | MHz |
| PSRR | V _{CC} = 12 V to 2 | 25 V | | 60 | 70 | | dB |
| Output sink current | FB = 2.7 V, | COMP = 1.1 | V | 2 | 6 | | mA |
| Output source current | FB = 2.3 V, | COMP = 5 V | | -0.5 | -0.8 | | mA |
| V _{OUT} high | FB = 2.3 V, | R _L = 15 kΩ t | o GND | 5 | 6 | | V |
| V _{OUT} low | FB = 2.7 V, | R _L = 15 kΩ t | o V _{REF} | | 0.7 | 1.1 | V |
| Current Sense Section | | | | | | | |
| Gain | See Notes 6 an | d 7 | | 2.85 | 3 | 3.15 | V/V |
| Maximum input signal | COMP = 5 V, | See Note 6 | | 0.9 | 1 | 1.1 | V |
| PSRR | V _{CC} = 12 V to 2 | V _{CC} = 12 V to 25 V, See Note 6 | | | | | dB |
| Input bias current | | | | | -2 | -10 | μΑ |
| Delay to output | I _{SENSE} = 0 V t | o 2 V, Se | e Note 2 | | 150 | 300 | ns |
| Output Section (OUT) | | | | | | | |
| Law law Law tank and a star and | I _{OUT} = 20 mA | | | | 0.1 | 0.4 | ., |
| Low-level output voltage | I _{OUT} = 200 mA | | | | 15 | 2.2 | V |
| I Calcillated a street calcillate | I _{OUT} = -20 mA | | | 13 | 13.5 | | ., |
| High-level output voltage | I _{OUT} = -200 m | A | | 12 | 13.5 | | V |
| Rise time | C _L = 1 nF, | See Note 2 | T _J = 25°C | | 50 | 150 | ns |
| Fall time | C _L = 1 nF, | See Note 2 | T _J = 25°C | | 50 | 150 | ns |
| UVLO saturation | V _{CC} = 5 V, | I _{OUT} = 10 m | A | | 0.7 | 1.2 | V |
| Undervoltage Lockout Section | <u> </u> | | | | | | |
| | | | UC1842A, UC1844A | 15 | 16 | 17 | ., |
| Start threshold | | | UC1843A, UC1845A | 7.8 | 8.4 | 9 | V |
| Million | | | UC1842A, UC1844A | 9 | 10 | 11 | |
| Minimum operation voltage after turn on | | | UC1843A, UC1845A | 7 | 7.6 | 8.2 | V |

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electrical characteristics, $T_A = -55^{\circ}C$ to 125°C for the UC184xAM-EP, $V_{CC} = 15$ V (see Note 1), $R_T = 10~k\Omega$, $C_T = 3.3$ nF, and $T_A = T_J$ (unless otherwise stated)

| PARAMETER | | TEST CONDITIONS | | | | UNITS |
|--|-------------------------|------------------|----|-----|-----|-------|
| PWM Section | | | | | | |
| Management distribution and | | UC1842A, UC1843A | 94 | 96 | 100 | 0, |
| Maximum duty cycle | | UC1844A, UC1845A | 47 | 48 | 50 | % |
| Minimum duty cycle | | | | | 0 | % |
| Total Standby Current | | | | | | |
| Start-up current | | | | 0.3 | 0.5 | mA |
| Operating supply current | FB = 0 V, | SENSE = 0 V | | 11 | 17 | mA |
| V _{CC} internal zener voltage | I _{CC} = 25 mA | | 30 | 34 | | V |

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

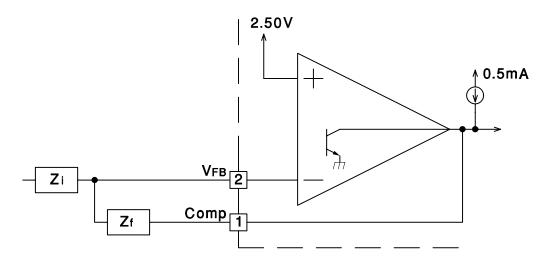
- 2. Not production tested.
- 3. Temperature stability, sometimes referred to as average temperature coefficient, is described by the equation:

Temp Stability =
$$\frac{V_{REF} \text{ (max)} - V_{REF} \text{ (min)}}{T_{J} \text{ (max)} - T_{J} \text{ (min)}}$$
. $V_{REF} \text{ (max)}$ and $V_{REF} \text{ (min)}$ are the maximum and minimum reference voltage

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 UC1842A and UC1843A. Output frequency is one half oscillator frequency for the UC1844A and UC1845A.
- 5. This parameter is measured with $R_T = 10 \text{ k}\Omega$ to V_{REF} . This contributes approximately 300 μ A of current to the measurement. The total current flowing into the $R_{T/C}$ pin will be approximately 300 μ A higher than the measured value.
- 6. Parameter measured at trip point of latch with VFB at 0 V.
- 7. Gain is defined by: $A = \frac{\Delta V_{COMP}}{\Delta V_{SENSE}}; 0 \le V_{SENSE} \le 0.8 \text{ V}.$

PARAMETER MEASUREMENT INFORMATION



Error Amp can source and sink up to 0.5 mA, and sink up to 2 mA.

Figure 1. Error Amp Configuration



PARAMETER MEASUREMENT INFORMATION

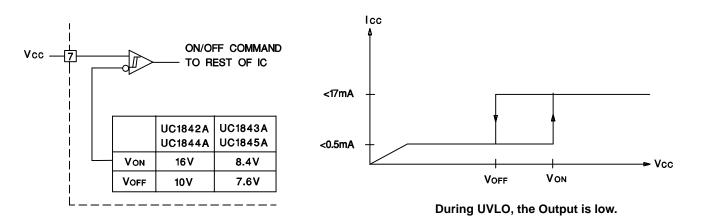
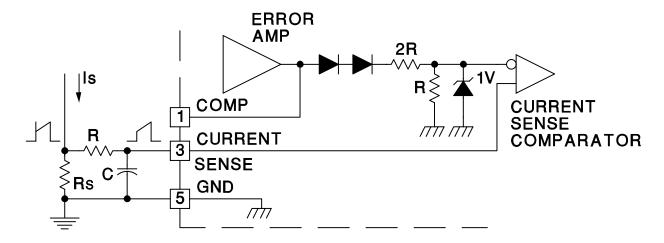


Figure 2. Under Voltage Lockout



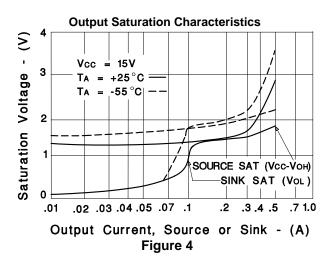
Peak Current (Is) is Determined By The Formula:

$$Ismax'\frac{1.0V}{RS}$$

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

Figure 3. Current Sense Circuit

PARAMETER MEASUREMENT INFORMATION



Error Amplifier Open-Loop Frequency Response

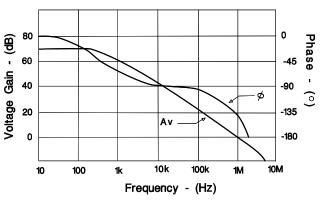


Figure 5

APPLICATION INFORMATION

Oscillator Frequency vs Timing Resistance

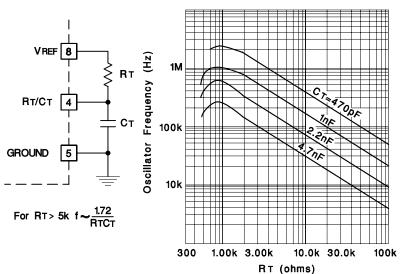
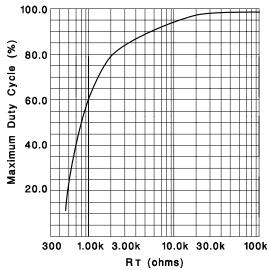
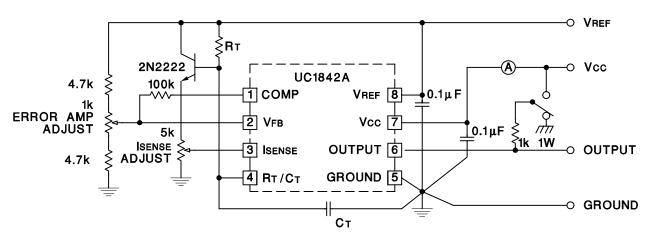


Figure 6. Oscillator

Maximum Duty Cycle vs Timing Resistor

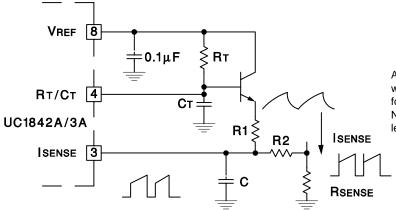


APPLICATION INFORMATION



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.

Figure 7. Open-Loop Laboratory Text Fixture

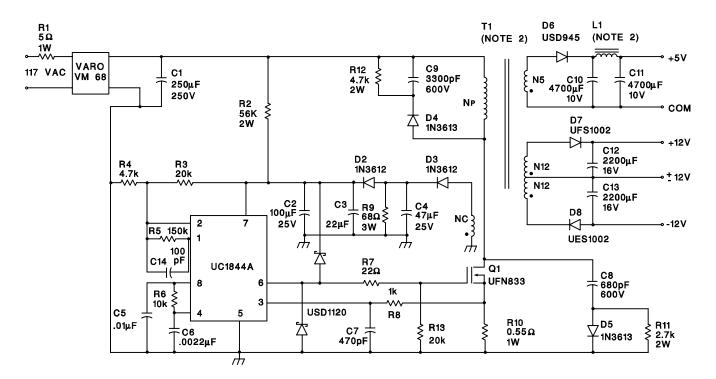


A fraction of the oscillator ramp can be resistively summed with the current sense signal to provide slope compensation for converters requiring duty cycles over 50%.

Note that capacitor, C, forms a filter with R2 to suppress the leading edge switch spikes.

Figure 8. Slope Complression

APPLICATION INFORMATION



Power Supply Specifications

1. Input Voltage 95VAC to 130VAC (50Hz/60Hz)

Line Isolation 3750V
 Switching Frequency 40 kHz
 Efficiency, Full Load 70%

5. Output Voltage:

A. +5V, ±5%; 1A to 4A Load

B. +12V, $\pm 3\%$; 0.1A to 0.3A Load Ripple voltage: 100 mV P-P Max C. -12V, $\pm 3\%$; 0.1A to 0.3A Load Ripple voltage: 100 mV P-P Max

Figure 9. Off-Line Flyback Regulator

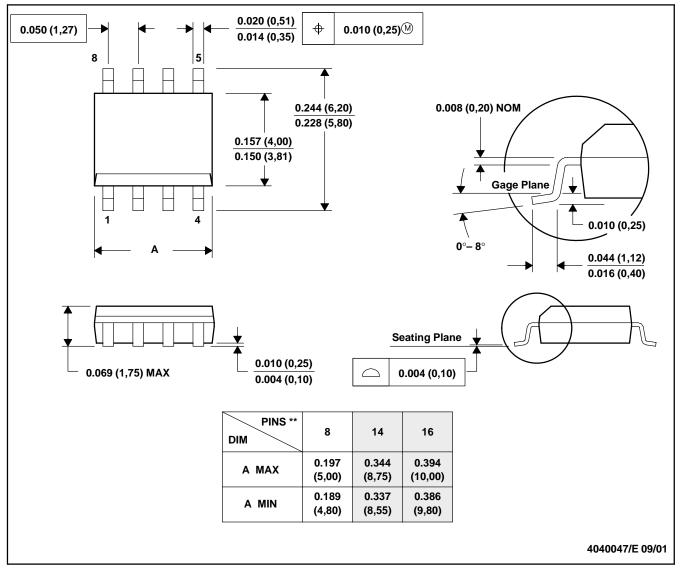
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MECHANICAL DATA

D (R-PDSO-G**)

8 PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion, not to exceed 0.006 (0,15).

D. Falls within JEDEC MS-012





i.com 15-Nov-2005

PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | e Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|-----------------|--------------------|------|----------------|---------------------------|------------------|------------------------------|
| UC1842AMDREP | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC1843AMDREP | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC1844AMDREP | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| UC1845AMDREP | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| V62/03625-01XE | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| V62/03625-02XE | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| V62/03625-03XE | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| V62/03625-04XE | ACTIVE | SOIC | D | 8 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |

⁽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) 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.

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)

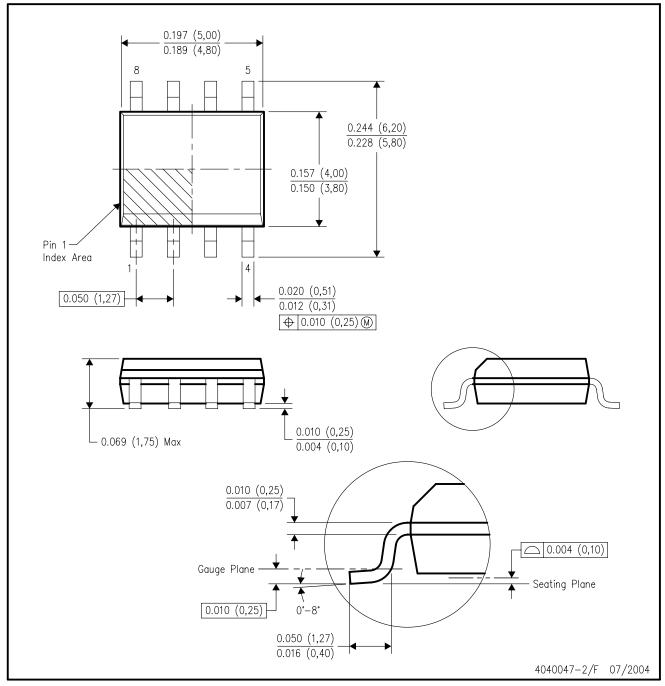
(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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D (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-012 variation AA.



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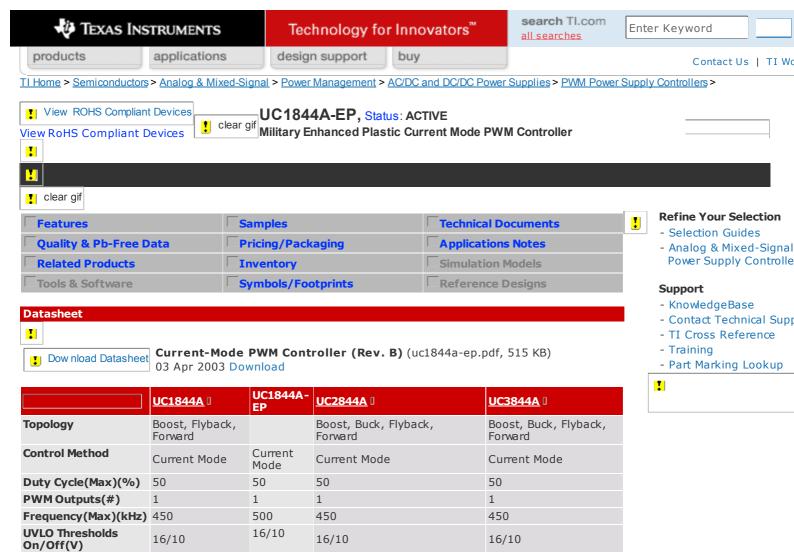
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14SOIC,8CDIP,8PDIP,8SOIC

14SOIC,8PDIP,8SOIC

.8

Samples

Inventory

Product Information

Pin/Package

(US\$)

Approx. 1KU Price

Features Save this to your personal library

.9

Inventory Inventory

Samples

8SOIC

Samples

2.42

Controlled Baseline

One Assembly/Test Site, One Fabrication Site
Extended Temperature Performance of -55°C to 125°C

 ${\bf Enhanced\ Diminishing\ Manufacturing\ Sources\ (DMS)\ Support}$

Enhanced Product Change Notification

Qualification Pedigree ^T

Optimized for Off-line and DC to DC Converters

20LCCC,8CDIP

3.44

Samples

Inventory

Low Start Up Current (<0.5 mA)

Trimmed Oscillator Discharge Current

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 Ro Error Amp

Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such qualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.

Description

The UC1842A/3A/4A/5A family of control ICs is a pin for pin compatible improved version of the UC3842/3/4/5 family. Providing the necessary features to control current mode switched mode power supplies, this family has the following improved features. Start up current is guaranteed to be less than 0.5 mA. Oscillator discharge is trimmed to 8.3 mA. During under voltage lockout, the output stage can sink at least 10 mA at less than 1.2 V for V_{CC} over 5 V.

The difference between members of this family are shown in the table below.

| | | | | Price | | Packaging | J | CAD Des | Samples | |
|--------------------|--------|---------------|--------------------|---------------------------------|--|---------------------|------------------------------|---------|------------|--------------------------------|
| Device | Status | Temp (°C) | DSCC# | Budget Price (\$US) QTY | Industry Standard (TI Pkg) Pins | Top Side Marking | Standard Pack Quantity | Symbols | Footprints | Samples |
| UC1844AMDREP | ACTIVE | -55 to 125 | V62/03625- 03XE | 2.42 1KU | SOIC (D) 8 | View | 2500 | | | Request Military Samples |
| V62/03625- 03XE | ACTIVE | -55 to 125 | | 2.42 1KU | SOIC (D) 8 | View | 2500 | | | Request Military Samples |

| Inventory | | | T. | | | | | |
|--------------------|-------------------------------------|---------------------------|--------------------------------|------------------------|--------------------------------|-------------|---------------|-----------------------|
| | | TI Inventory St | atus | Repo | Reported Distributor Inventory | | | View all Distributors |
| UC1844AMDREP | AMDREP As of 8:27 AM GMT, 25 Nov 20 | | As of 8:27 AM GMT, 25 Nov 2005 | | | | , 25 Nov 2005 | Choose a Region |
| | In Stock | In Progress QTY Date | Lead Time | Region | Company | In Stock | Purchase | : |
| | 2500* | >10k 28 Dec | 8 Weeks | Americas | | >1k | | _ |
| V62/03625- 03XE | As of | f 8:27 AM GMT, 2 | 25 Nov 2005 | As | s of 8:27 A | M GMT | , 25 Nov 2005 | |
| | In Stock | In Progress QTY Date | Lead Time | Region | Company | In Stock | Purchase | |
| | 2500* | >10k 28 Dec | 8 Weeks | None Rep View Distr | orted | | | |

^{*} Our information is updated daily, so please check back with us ** Lead time information is not available at this time. However, soon if this does not meet your needs. You may also contact your TI Authorized Distributor, including those listed above, for real time stock information.

our information is updated daily so please check back with us soon. Please contact your preferred TI Authorized Distributor for additional information.

| Quality & Lead (Pb)-Free Data | | | | | | | | | |
|-------------------------------|-------------------------|------------------|------------------------|---------|---------------|--|--|--|--|
| | | Product Con | tent | | MTBF/FIT Rate | | | | |
| Device | Eco Plan* | Lead/Ball Finish | MSL Rating/Peak Reflow | Details | Details | | | | |
| UC1844AMDREP | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | View | View | | | | |
| V62/03625-03XE | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | View | View | | | | |

^{*} The planned eco-friendly classification: Pb-Free (RoHS) or Green (RoHS & no Sb/Br) - please click on the Product Content Details "View" link in the table above for the latest availability information and additional product content details.

If the information you are requesting is not available online at this time, contact one of our Product Information Centers regarding the availability of this information.

| Technical Documents | |
|---|--------------------------|
| □ Datasheets | Keep track of what's new |
| Current-Mode PWM Controller (Rev. B) (uc1844a-ep.pdf, 515 KB) | |
| 03 Apr 2003 Download | |

Application Notes

View Application Notes for PWM Power Supply Controllers

Related Products

| Related Applications |
|----------------------------|
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