

Comp □

V_{FB}

SENSE

R_T/C_T

N/C

 V_{FB}

SENSE N/C Π8

N/C 6

5

7

JG PACKAGE

(TOP VIEW)

8

6

5 Gnd

 V_{cc}

18

17

16 N/C

15

14 N/C

⊈ເກີຍີ

Output

1

2

3

4

FK PACKAGE (TOP VIEW)

10 11 12 13

Gnd ž

PWL

Gnd

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SLUS872A-JANUARY 2009-REVISED MAY 2009

QML CLASS V, CURRENT-MODE PWM CONTROLLERS

FEATURES

- QML-V Qualified, SMD 5962-86704
- Rad-Tolerant: 30 kRad (Si) TID (1) (2)
- Optimized for Offline and DC-to-DC Converters
- Low Start-Up Current (<0.5 mA)
- **Trimmed Oscillator Discharge Current**
- Automatic Feed Forward Compensation
- Pulse-by-Pulse Current Limiting
- Enhanced Load Response Characteristics
- Undervoltage Lockout With Hysteresis
- **Double-Pulse Suppression**
- High-Current Totem-Pole Output
- **Internally Trimmed Bandgap Reference**
- 500-kHz Operation
- Low R_o Error Amplifier
- Radiation tolerance is a typical value based upon initial device (1)qualification with dose rate = 10 mrad/sec. Radiation Lot Acceptance Testing is available - contact factory for details. (2) 5962-8670409VPA currently offered. Contact factory for
- additional devices.

DESCRIPTION

The UC1842A/3A/4A/5A family of control IC's is a pin for pin compatible improved version of the UC1842/3/4/5 family.Providing the necessary features to control current-mode switched-mode power supplies, this device 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 undervoltage 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 Table 1.



Table 1. UC184xA Family



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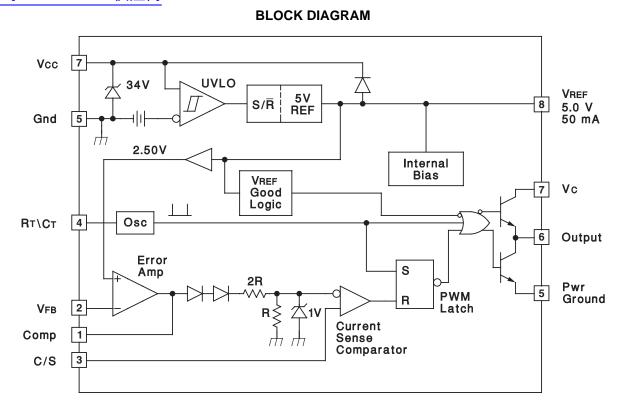
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

UC1842A-SP, UC1843A-SP, UC1844A-SP, UC1845A-SP



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ORDERING INFORMATION⁽¹⁾

PARENT	PACKAGE ⁽²⁾	ORDERABLE PART NUMBER	T _A	TOP-SIDE MARKING
UC1842A	JG (8-CDIP)	5962-8670405VPA	–55°C to 125°C	8670405VPA/UC1842A
0C1042A	FK (20-LCCC)	5962-8670405VXA	-55 C 10 125 C	5962-8670405VXA/UC1842ALQMLV
1101040404	JG (8-CDIP)	5962-8670406VPA	EE%C to 105%C	8670406VPA/UC1843A
UC1843A	FK (20-LCCC)	5962-8670406VXA	–55°C to 125°C	5962-8670406VXA/UC1843ALQMLV
	JG (8-CDIP)	5962-8670407VPA	–55°C to 125°C	8670407VPA/UC1844A
UC1844A	FK (20-LCCC)	5962-8670407VXA	-55 0 10 125 0	5962-8670407VXA/UC1844ALQMLV
UC1845A		5962-8670408VPA		8670408VPA/UC1845A
UC 1045A	FK (20-LCCC)	5962-8670408VXA	–55°C to 125°C	5962-8670408VXA/UC1845ALQMLV

(1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.

(2) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.

ORDERING INFORMATION (RADIATION IMPROVED DEVICES)⁽¹⁾⁽²⁾

PARENT	PACKAGE ⁽³⁾	ORDERABLE PART NUMBER	T _A	TOP-SIDE MARKING
UC1843A	JG (8-CDIP)	5962-8670409VPA	–55°C to 125°C	8670409VPA/UC1843A-SP

(1) See Electrical Characteristics (Radiation Improved Devices).

(2) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.

(3) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.

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ABSOLUTE MAXIMUM RATINGS⁽¹⁾⁽²⁾

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

V_{CC}	Supply voltage, low-impedance source	30 V
	Supply current	Self limiting
I _O	Output current	±1 A
	Output energy (capacitive load)	5 µJ
VI	Input voltage (V _{FB} , I _{SENSE})	–0.3 V to 6.3 V
	Error amplifier output sink current	10 mA
PD	Power dissipation ($T_A = 25^{\circ}C$)	1 W
T _{stg}	Storage temperature range	–65°C to 150°C
T _{lead}	Lead temperature (soldering, 10 seconds)	300°C

(1) 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.

(2) All voltages are with respect to ground. Currents are positive into, negative out of the specified terminal.

RECOMMENDED OPERATING CONDITIONS

over operating free-air temperature range ($T_A = T_J = -55^{\circ}C$ to 125°C), unless otherwise noted.

		MIN	MAX	UNIT
V _{CC}	Supply voltage	12	25	V
	Sink/source output current (continuous or time average)	0	200	mA
	Reference load current	0	20	mA

ELECTRICAL CHARACTERISTICS

 V_{CC} = 15 V⁽¹⁾, R_T = 10 k Ω , C_T = 3.3 nF, T_A = T_J = -55°C to 125°C (unless otherwise noted)

PARAMETER	TEST CONDITIONS			TYP	MAX	UNIT
Reference Section	I		1			
Output voltage	$T_{\rm J} = 25^{\circ} {\rm C}, \ {\rm I}_{\rm O} = 1 \ {\rm mA}$		4.95	5	5.06	V
Line regulation	V _{IN} = 12 V to 25 V			6	20	mV
Load regulation	I _O = 1 mA to 20 mA			6	25	mV
Temperature stability ⁽²⁾⁽³⁾				0.2	0.4	mV/°C
Total output variation	Over line, load, and tem	perature	4.9		5.1	V
Output noise voltage	10 Hz ≤ f ≤ 10 kHz, T _J =	10 Hz ≤ f ≤ 10 kHz, T _J = 25°C				μV
Long term stability	1000 hours, T _A = 125°C	1000 hours, T _A = 125°C ⁽²⁾		5	25	mV
Short-circuit output current				-100	-180	mA
Oscillator Section						
Initial accuracy	$T_{\rm J} = 25^{\circ} C^{(4)}$		47	52	57	kHz
Voltage stability	$V_{CC} = 12 \text{ V to } 25 \text{ V}$			0.2	1	%
Temperature stability	$T_A = MIN \text{ to } MAX^{(2)}$	$T_A = MIN \text{ to } MAX^{(2)}$		5		%
Amplitude peak-to-peak	V pin 4 ⁽²⁾	V pin 4 ⁽²⁾		1.7		V
Discharge surrent	V pin 4 = 2 V ⁽⁵⁾	$T_J = 25^{\circ}C$	7.8	8.3	8.8	~ ^
Discharge current	$v pin 4 = 2 v^{(4)}$	T _J = Full range	7.5		8.8	mA

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

(2) Parameters ensured by design and/or characterization, if not production tested.

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

(4) Output frequency equals ocscillator frequency for the UC1842A and UC1843A. Output frequency is one half oscillator frequency for UC18444A 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_T pin will be approximately 300 μ A higher than the measured value.

Temp Stability = 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 voltage measured over the appropriate temperature range. Note that the extremes in voltage do not necessarily occur at the extremes in temperature.



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ELECTRICAL CHARACTERISTICS (continued)

 V_{CC} = 15 V, R_{T} = 10 kΩ, C_{T} = 3.3 nF, T_{A} = T_{J} = –55°C to 125°C (unless otherwise noted)

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Error Amp Section						
Input voltage	$V_{Comp} = 2.5 V$	2.45	2.50	2.55	mV	
Input bias current			-0.3	-1	μΑ	
Open-loop voltage gain	$V_0 = 2 V \text{ to } 4 V$	65	90		dB	
Unity-gain bandwidth	$T_{J} = 25^{\circ}C^{(6)}$	0.7	1		MHz	
PSRR	V _{CC} = 12 V to 25 V	60	70		dB	
Output sink current	V _{FB} = 2.7 V, V _{Comp} = 1.1 V	2	6		mA	
Output source current	V _{FB} = 2.3 V, V _{Comp} = 5 V	-0.5	-0.8		mA	
High-level output voltage	V_{FB} = 2.3 V, R_L = 15 k Ω to ground	5	6		V	
Low-level output voltage	V_{FB} = 2.7 V, R_L = 15 k Ω to V_{REF}		0.7	1.1	V	
Current Sense Section						
Gain ⁽⁷⁾⁽⁸⁾		2.85	3	3.15	V/V	
Maximum input signal	$V_{\text{Comp}} = 5 \text{ V}^{(7)}$	0.9	1	1.1	V	
PSRR	$V_{CC} = 12 \text{ V to } 25 \text{ V}^{(7)}$		70		dB	
Input bias current			-2	-10	μA	
Delay to output	$V_{\text{ISENSE}} = 0 \text{ to } 2 \text{ V}^{(6)}$		150	300	ns	
Output Section						
	I _{SINK} = 20 mA		0.1	0.4	V	
Output low-level voltage	I _{SINK} = 200 mA		1.5	2.2	V	
Qutout high-level voltage	I _{SOURCE} = -20 mA	13	13.5		V	
Output high-level voltage	I _{SOURCE} = -200 mA	12	13.5		V	
Rise time	$C_L = 1 \text{ nF}, T_J = 25^{\circ}C^{(6)}$		50	150	ns	
Fall time	$C_{L} = 1 \text{ nF}, T_{J} = 25^{\circ}C^{(6)}$		50	150	ns	
UVLO saturation	V _{CC} = 5 V, I _{SINK} = 10 mA		0.7	1.2	V	
Undervoltage Lockout Section						
	UC1842A, UC1844A	15	16	17		
Start threshold	UC1843A, UC1845A	7.8	8.4	9	V	
	UC1842A, UC1844A	9	10	11		
Minimum operation voltage after turn-on	UC1843A, UC1845A	7	7.6	8.2	- V	
PWM Section						
	UC1842A, UC1843A	94	96	100		
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	V _{FB} = V _{ISENSE} = 0 V		11	17	mA	
V _{CC} zener voltage	$I_{\rm CC} = 25 \text{ mA}$	30	34		V	

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Product Folder Link(s): UC1842A-SP UC1843A-SP UC1844A-SP UC1845A-SP



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ELECTRICAL CHARACTERISTICS (RADIATION IMPROVED DEVICES)⁽¹⁾

 V_{CC} = 15 V, R_{T} = 10 kΩ, C_{T} = 3.3 nF, T_{A} = T_{J} = –55°C to 125°C (unless otherwise noted)

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reference Section		i			
Output voltage	$T_J = 25^{\circ}C, I_O = 1 \text{ mA}$	4.94	5	5.06	V
Line regulation	$V_{CC} = 12 \text{ V to } 25 \text{ V}$		6	20	mV
Load regulation	$I_L = 1 \text{ mA to } 20 \text{ mA}$		6	25	mV
Total output variation	Over line, load, and temperature	4.9		5.1	V
Output noise voltage	10 Hz \leq f \leq 10 kHz, T _J = 25°C		50		μV
Short-circuit output current		-30	-100	-180	mA
Oscillator Section					
Initial accuracy	$T_{\rm J} = 25^{\circ}{\rm C}$	47	52	57	kHz
Voltage stability	V_{CC} = 12 V to 25 V		0.2	1	%
Temperature stability	$T_J = -55^{\circ}C$ to $125^{\circ}C$		5		%
Amplitude	V _{RT/CT} peak to peak		1.7		V
Discharge current ⁽²⁾	$T_J = 25^{\circ}C, V_{RT/CT} = 2 V$	7.8	8.3	8.8	٣A
	$V_{RT/CT} = 2 V$	7.5		8.8	mA
Error Amp Section					
Input voltage	$V_{Comp} = 2.5 V$	2.45	2.50	2.55	mV
Input bias current			-0.3	-1	μA
Open-loop voltage gain	$V_0 = 2 V \text{ to } 4 V$	65	90		dB
Unity-gain bandwidth	$T_{\rm J} = 25^{\circ} {\rm C}^{(3)}$	0.7	1		MH
PSRR	V _{CC} = 12 V to 25 V	60	70		dB
Output sink current	V _{FB} = 2.7 V, V _{Comp} = 1.1 V	2	6		mA
Output source current	V _{FB} = 2.3 V, V _{Comp} = 5 V	-0.5	-0.8		mA
High-level output voltage	V_{FB} = 2.3 V, R_L = 15 k Ω to ground	5	6		V
Low-level output voltage	V_{FB} = 2.7 V, R_L = 15 k Ω to V_{REF}		0.7	1.1	V
Current Sense Section					
Gain ⁽⁴⁾⁽⁵⁾		2.85	3	3.15	V/V
Maximum input signal	$V_{\text{Comp}} = 5 V^{(4)}$	0.9	1	1.1	V
PSRR	$V_{\rm CC} = 12 \text{ V to } 25 \text{ V}^{(4)}$		70		dB
Input bias current			-2	-10	μA
Delay to output	$V_{ISENSE} = 0$ to 2 V ⁽³⁾		150	300	ns
Output Section					
	I _{SINK} = 20 mA		0.1	0.4	V
Output low-level voltage	I _{SINK} = 200 mA		1.5	2.2	V
	I _{SOURCE} = 20 mA	13	13.5		V
Output high-level voltage	I _{SOURCE} = 200 mA	12	13.0		V
Rise time	$C_L = 1 \text{ nF}, T_J = 25^{\circ}C^{(3)}$		50	150	ns
Fall time	$C_{L} = 1 \text{ nF}, T_{J} = 25^{\circ}C^{(3)}$		50	150	ns
UVLO saturation	$V_{CC} = 5 \text{ V}, \text{ I}_{SINK} = 10 \text{ mA}$		0.7	1.2	V
Undervoltage Lockout Section			-	-	
Start threshold		7.8	8.4	9	V
Minimum operation voltage after turn-on		7	7.6	8.2	V
PWM Section		•	1.0	0.2	

See Ordering Information (Radiation Improved Devices). (1)

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_T pin will be approximately 300 μ A higher than the measured value. Parameters ensured by design and/or characterization, if not production tested. Parameter measured at trip point of latch with $V_{FB} = 0 \text{ V}$. Gain defined as: $G = \Delta V_{Comp} / \Delta V_{ISENSE}$; $V_{ISENSE} = 0$ to 0.8 V. (2)

(3)

(4)

(5)

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ELECTRICAL CHARACTERISTICS (RADIATION IMPROVED DEVICES) (continued)

 V_{CC} = 15 V, R_T = 10 kΩ, C_T = 3.3 nF, T_A = T_J = –55°C to 125°C (unless otherwise noted)

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Maximum duty cycle		94	96	100	%
Minimum duty cycle				0	%
Total Standby Current					
Start-up current			0.3	0.5	mA
Operating supply current	$V_{FB} = V_{ISENSE} = 0 V$		11	17	mA
V _{CC} zener voltage	$I_{CC} = 25 \text{ mA}$	30	34		V

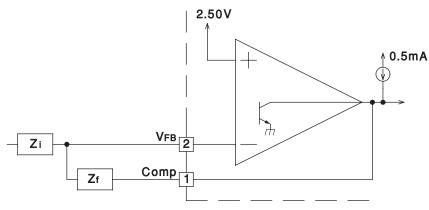
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APPLICATION INFORMATION



Amp can Source and Sink up to 0.5mA, and Sink up to 2mA.

Figure 1. Error Amplifier Configuration

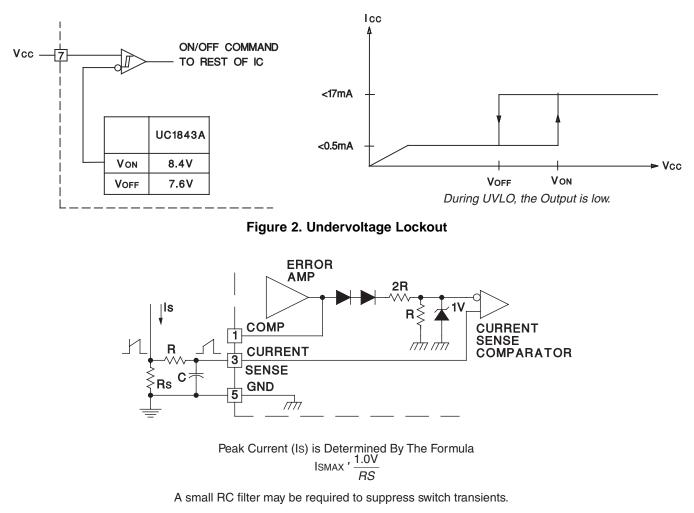


Figure 3. Current-Sense Circuit

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UC1842A-SP, UC1843A-SP, UC1844A-SP, UC1845A-SP

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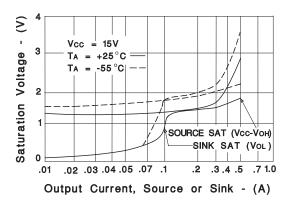


Figure 4. Output Saturation Characteristics

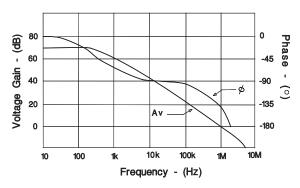


Figure 5. Error Amplifier Open-Loop Frequency Response

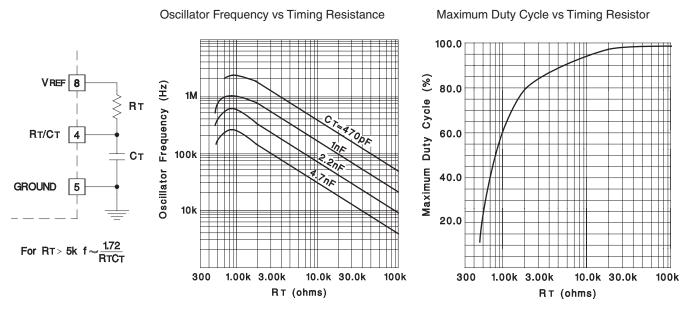


Figure 6. Oscillation Section

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Product Folder Link(s): UC1842A-SP UC1843A-SP UC1844A-SP UC1845A-SP

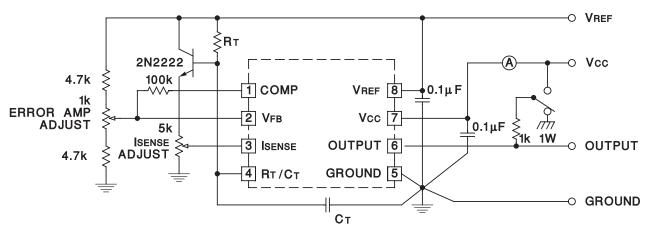
TEXAS INSTRUMENTS

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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.

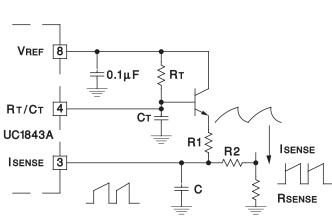


Figure 7. Open-Loop Laboratory Test Fixture

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.

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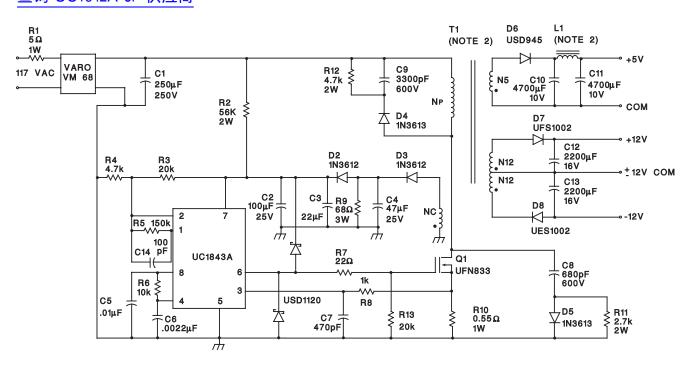
Figure 8. Slope Compensation

UC1842A-SP, UC1843A-SP, UC1844A-SP, UC1845A-SP

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Power Supply Specifications

1. Input Voltage

- 2. Line Isolation
- 2. LINE ISOIALION
- 3. Switching Frequency
- 4. Efficiency Full Load

95VAC to 130VA (50 Hz/60Hz) 3750V 40kHz 70% Output Voltage:
A. +5V, ± 5%; 1A to 4A load Ripple voltage: 50mV P-P Max
B. +12V, ± 3%; 0.1A to 0.3A load Ripple voltage: 100mV P-P Max
C. -12V ,±3%; 0.1A to 0.3A load Ripple voltage: 100mV P-P Max







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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
	5962-8670405VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg
	5962-8670405VXA	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg
	5962-8670406VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg
	5962-8670406VXA	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg
	5962-8670407VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg
	5962-8670407VXA	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg
	5962-8670408VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg
	5962-8670408VXA	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg
	5962-8670409VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg

⁽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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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 Cu

OTHER QUALIFIED VERSIONS OF UC1842A-SP, UC1843A-SP, UC1844A-SP, UC1845A-SP :

- Catalog: UC1842A, UC1843A, UC1844A, UC1845A
- Enhanced Product: UC1842A-EP, UC1843A-EP, UC1844A-EP, UC1845A-EP

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Enhanced Product Supports Defense, Aerospace and Medical Applications

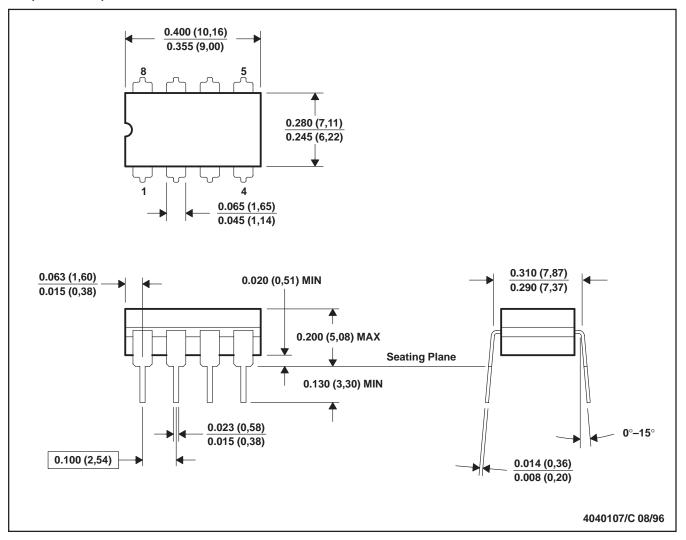
MECHANICAL DATA

MCER001A - JANUARY 1995 - REVISED JANUARY 1997

<u> 查询"UC1842A-SP"供应商</u>

JG (R-GDIP-T8)

CERAMIC DUAL-IN-LINE



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



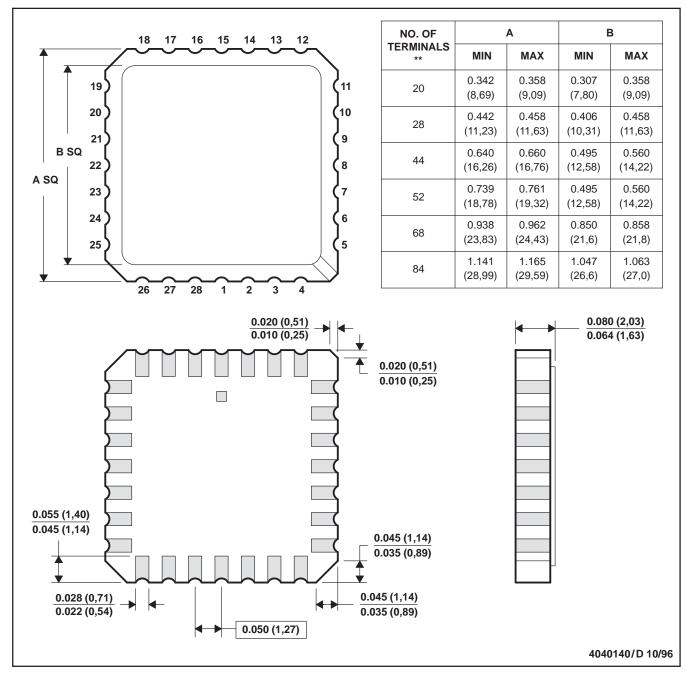
<u> 查询"UC1842A-SP"供应商</u>

FK (S-CQCC-N**)

MLCC006B - OCTOBER 1996

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



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 metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



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