ap	plication	UC1861-1868
	INFO	UC2861-2868
	available	UC3861-3868

Resonant-Mode Power Supply Controllers

FEATURES

- Controls Zero Current Switched (ZCS) or Zero Voltage Switched (ZVS) Quasi-Resonant Converters
- Zero-Crossing Terminated One-Shot
 Timer
- Precision 1%, Soft-Started 5V Reference
- Programmable Restart Delay Following Fault
- Voltage-Controlled Oscillator (VCO) with Programmable Minimum and Maximum Frequencies from 10kHz to 1MHz
- Low Start-Up Current (150µA typical)
- Dual 1 Amp Peak FET Drivers
- UVLO Option for Off-Line or DC/DC Applications

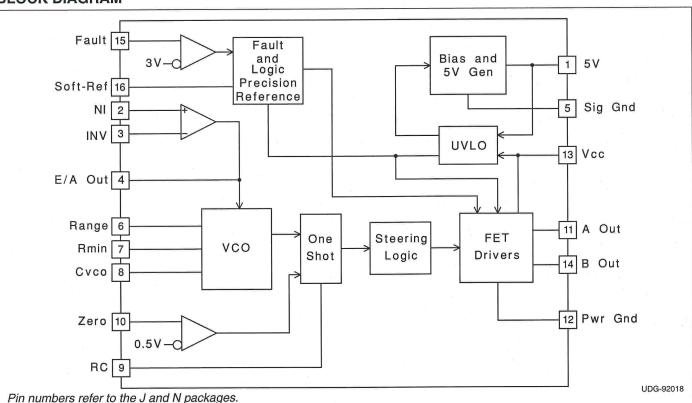
DESCRIPTION

The UC1861-1868 family of ICs is optimized for the control of Zero Current Switched and Zero Voltage Switched quasi-resonant converters. Differences between members of this device family result from the various combinations of UVLO thresholds and output options. Additionally, the one-shot pulse steering logic is configured to program either on-time for ZCS systems (UC1865-1868), or off-time for ZVS applications (UC1861-1864).

The primary control blocks implemented include an error amplifier to compensate the overall system loop and to drive a voltage controlled oscillator (VCO), featuring programmable minimum and maximum frequencies. Triggered by the VCO, the one-shot generates pulses of a programmed maximum width, which can be modulated by the Zero Detection comparator. This circuit facilitates "true" zero current or voltage switching over various line, load, and temperature changes, and is also able to accommodate the resonant components' initial tolerances.

Under-Voltage Lockout is incorporated to facilitate safe starts upon power-up. The supply current during the under-voltage lockout period is typically less than 150μ A, and the outputs are actively forced to the low state. (continued)

Device	1861	1862	1863	1864	1865	1866	1867	1868
UVLO	16.5/10.5	16.5/10.5	8/7	8/7	16.5/10.5	16.5/10.5	8/7	8/7
Outputs	Alternating	Parallel	Alternating	Parallel	Alternating	Parallel	Alternating	Parallel
"Fixed"	Off Time	Off Time	Off Time	Off Time	On Time	On Time	On Time	On Time



BLOCK DIAGRAM

SLUS289B - OCTOBER 1998 - REVISED SEPTEMBER 2007

DESCRIPTION (cont.)

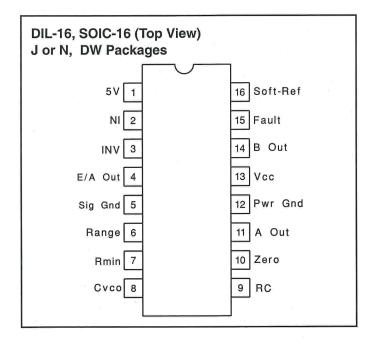
UVLO thresholds for the UC1861/62/65/66 are 16.5V (ON) and 10.5V (OFF), whereas the UC1863/64/67/68 thresholds are 8V (ON) and 7V (OFF). After V_{CC} exceeds the UVLO threshold, a 5V generator is enabled which provides bias for the internal circuits and up to 10mA for external usage.

A Fault comparator serves to detect fault conditions and set a latch while forcing the output drivers low. The Soft-Ref pin serves three functions: providing soft start, restart

ABSOLUTE MAXIMUM RATINGS

V _{CC}
Output Current
Source or Sink (Pins 11 & 14) 0.5A
DC Pulse (0.5µs) 1.5A
Power Ground Voltage ±0.2V
Inputs (Pins 2, 3, 10, & 15)
Error Amp Output Current ±2mA
Power Dissipation1W
Junction Temperature (Operating)
Lead Temperature (Soldering, 10 seconds)

All voltages are with respect to signal ground and all currents are positive into the specified terminal. Pin numbers refer to the J and N packages. Consult Unitrode Integrated Circuits databook for information regarding thermal specifications and limitations of packages.



delay, and the internal system reference.

Each device features dual 1 Amp peak totem pole output drivers for direct interface to power MOSFETS. The outputs are programmed to alternate in the UC1861/63/65/67 devices. The UC1862/64/66/68 outputs operate in unison allowing a 2 Amp peak current.

CONNNECTION DIAGRAMS

PLCC-20 & LCC-20 (Top Q & L Package	View)	
9	PACKAGE PIN F	UNCTION
	FUNCTION	PIN
	Soft Ref	1
	5V	2
1	NI	3
	INV	4
3 2 1 20 19	E/A Out	5
	Sig Gnd	6
[4 18]	Range	7
[5 17]	RMIN	8
6 16	Cvco	9
1-	RC	10
[7 15]	Zero	11
[8 14]	NC	12
9 10 11 12 13	NC	13
	A Out	14
	Pwr Gnd	15
	Pwr Gnd	16
	Vcc	17
	B Out	18
	NC	19
	Fault	20
1		

ELECTRICAL CHARACTERISTICS Unless otherwise stated, all specifications apply for -55°C≤Ta≤125°C for the UC186x, -25°C≤Ta≤85°C for the UC286x, and 0°C≤Ta≤70°C for the UC386x, Vcc=12V, Cvco=1nF, Range=7.15k, RMIN=86.6k, C=200pF, R=4.02k, and Csr=0.1µF. Ta=TJ.

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
5V Generator					
Output Voltage	$12V \le Vcc \le 20V, -10mA \le Io \le 0mA$	4.8	5.0	5.2	V
Short Circuit Current	Vo = 0V	-150		-15	mA
Soft-Reference					
Restart Delay Current	V = 2V	10	20	35	μA
Soft Start Current	V = 2V	-650	-500	-350	μΑ
Reference Voltage	$T_J = 25^{\circ}C, IO = 0A$	4.95	5.00	5.05	V
	$12V \le Vcc \le 20V$, $-200\mu A \le Io \le 200\mu A$	4.85		5.15	V
Line Regulation	$12V \le Vcc \le 20V$		2	20	mV
Load Regulation	$-200\mu A \le IO \le 200\mu A$	1	10	30	mV
Error Amplifier (Note 3)					
Input Offset Voltage	VCM = 5V, Vo = 2V, IO = 0A	-10		10	mV
Input Bias Current	VCM = 0V	-2.0	-0.3	1	μΑ
Voltage Gain	$Vcm = 5V, 0.5V \le Vo \le 3.7V, Io = 0A$	70	100		dB
Power Supply Rejection Ratio	$Vcm = 5V, Vo = 2V, 12V \le Vcc \le 20V$	70	100	1	dB
Error Amplifier (Note 3) (cont.)					
Common Mode Rejection Ratio	$0V \le Vcm \le 6V, Vo = 2V$	65	100		dB
Vout Low	$V_{ID} = -100 \text{mV}, IO = 200 \mu \text{A}$		0.17	0.25	V
Vout High	$V_{ID} = 100 \text{mV}, IO = -200 \mu \text{A}$	3.9	4.2	н т.	V
Unity Gain Bandwidth	(Note 4)	0.5	0.8		MHz
Voltage Controlled Oscillator					
Maximum Frequency	VID (Error Amp) = 100mV, TJ = 25°C	450	500	550	kHz
	VID (Error Amp) = 100mV	425	· · ·	575	kHz
Minimum Frequency	VID (Error Amp) = -100 mV, TJ = 25° C	45	50	55	kHz
	VID (Error Amp) = -100mV	42		58	kHz
One Shot					т. п.
Zero Comparator Vth		0.45	0.50	0.55	V
Propagation Delay	(Note 4)	ч.	120	200	ns
Maximum Pulse Width	VZERO = 1V	850	1000	1150	ns
Maximum to Minimum Pulse	VZERO = 0V UCx861 – UCx864	2.5	4	5.5	
Width Ratio	VZERO = 0V UCx865 – UCx868. –55°C to +85°C	4	5.5	7	
	VZERO = 0V UCx865 – UCx868, +125°C	3.8	5.5	7	
Output Stage			1		1
Rise and Fall Time	CLOAD = 1nF (Note 4)		25	45	ns
Output Low Saturation	Io = 20mA		0.2	0.5	V
	Io = 200mA		0.5	2.2	V
Output High Saturation	IO = -200 mA, down from Vcc		1.7	2.5	V
UVLO Low Saturation	IO = 20mA		0.8	1.5	V
Fault Comparator					
Fault Comparator Vth		2.85	3.00	3.15	V
Delay to Output	(Note 4) (Note 5)		100	200	ns

ELECTRICAL CHARACTERISTICS Unless otherwise stated, all specifications apply for –55°C≤TA≤125°C for the UC186x, –25°C≤TA≤85°C for the UC286x, and 0°C≤TA≤70°C for the UC386x, Vcc=12V, Cvco=1nF, Range=7.15k, RMIN=86.6k, C=200pF, R=4.02k, and Csr=0.1µF. TA=TJ.

PARAMETER	PARAMETER TEST CONDITIONS					
UVLO					1	
Vcc Turn-on Threshold	UCx861, UCx862, UCx865, UCx866	15	16.5	18	V	
	UCx863, UCx864, UCx867, UCx868	7	8.0	9	V	
Vcc Turn-off Threshold	UCx861, UCx862, UCx865, UCx866	9.5	10.5	11.5	V	
	UCx863, UCx864, UCx867, UCx868	6	7.0	9	V	
Icc Start	Vcc = Vcc(on) - 0.3V		150	300	μΑ	
Icc Run	VID = 100mV		25	32	mA	

Note 1: Currents are defined as positive into the pin.

Note 2: Pulse measurement techniques are used to insure that TJ = TA.

Note 3: VID = V(NI) - V(INV).

Note 4: This parameter is not 100% tested in production but guaranteed by design.

Note 5: Vi = 0 to 4V tr(Vi) 10ns tpd = t(Vo = 6V) - t(Vi = 3V)

APPLICATION INFORMATION

UVLO & 5V GENERATOR (See Figure 1): When power is applied to the chip and Vcc is less than the upper UVLO threshold, Icc will be less than 300μ A, the 5V generator will be off, and the outputs will be actively held low.

When Vcc exceeds the upper UVLO threshold, the 5V generator turns on. Until the 5V pin exceeds 4.9V, the outputs will still remain low.

The 5V pin should be bypassed to signal ground with a 0.1μ F capacitor. The capacitor should have low equivalent series resistance and inductance.

FAULT AND SOFT-REFERENCE (See Figure 1): The Soft-Ref pin serves three functions: system reference, restart delay, and soft-start. Designed to source or sink 200 μ A, this pin should be used as the input reference for the error amplifier circuit. This pin requires a bypass capacitor of at least 0.1 μ F. This yields a minimum soft-start time of 1ms.

Under-Voltage Lockout sets both the fault and restart delay latches. This holds the outputs low and discharges the Soft-Ref pin. After UVLO, the fault latch is reset by the low voltage on the Soft-Ref pin. The reset fault latch resets the delay latch and Soft-Ref charges via the 0.5mA current source. The fault pin is input to a high speed comparator with a threshold of 3V. In the event of a detected fault, the fault latch is set and the outputs are driven low. If Soft-Ref is above 4V, the delay latch is set. Restart delay is timed as Soft-Ref is discharged by 20μ A. When Soft-Ref is fully discharged, the fault latch is reset if the fault input signal is low. The Fault pin can be used as a system shutdown pin.

If a fault is detected during soft-start, the fault latch is set and the outputs are driven low. The delay latch will remain reset until Soft-Ref charges to 4V. This sets the delay latch, and restart delay is timed. Note that restart delay for a single fault event is longer than for recurring faults since Soft-Ref must be discharged from 5V instead of 4V.

The restart delay to soft-start time ratio is 24:1 for a fault occurring during normal operation and 19:1 for faults occurring during soft-start. Shorter ratios can be programmed down to a limit of approximately 3:1 by the addition of a $20k\Omega$ or larger resistor from Soft-Ref to ground.

A 100k Ω resistor from Soft-Ref to 5V will have the effect of permanent shut down after a fault since the internal 20 μ A current source can't pull Soft-Ref low. This feature can be used to require recycling Vcc after a fault. Care must be taken to insure Soft-Ref is indeed low at start up, or the fault latch will never be reset.

APPLICATION INFORMATION

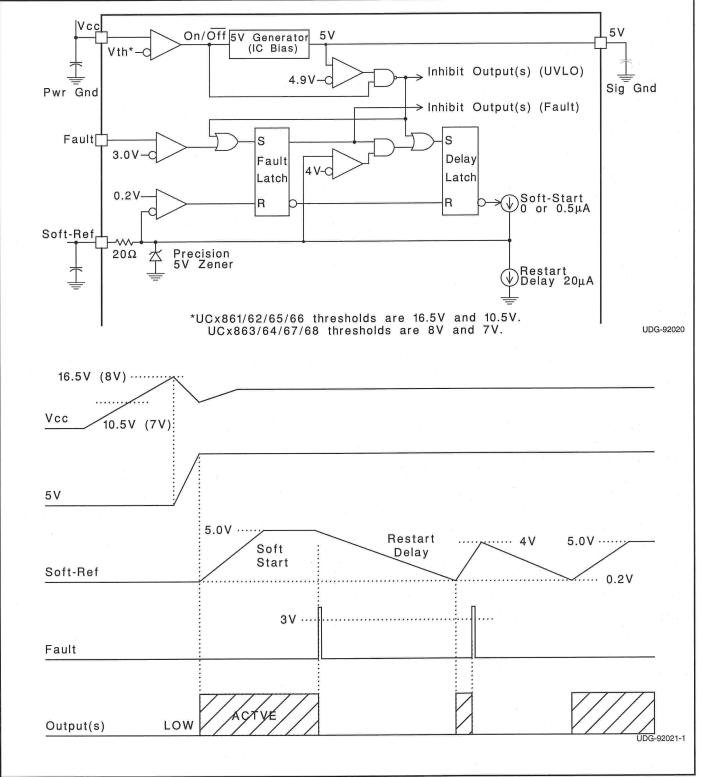


Figure 1. UVLO, 5V, fault and soft-ref.

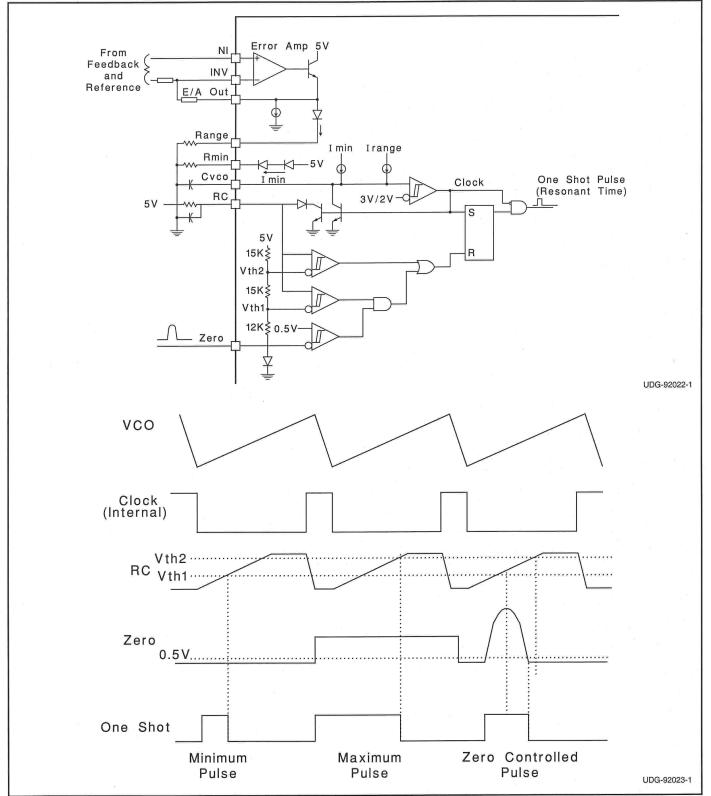


Figure 2. Error Amp, Voltage Controlled Oscillator, and One Shot

APPLICATION INFORMATION

Minimum oscillator frequency is set by Rmin and Cvco. The minimum frequency is approximately given by the equation:

$$F_{MIN} \cong \frac{3.6}{R_{MIN} \bullet C_{VCO}}$$

Maximum oscillator frequency is set by Rmin, Range & Cvco. The maximum frequency is approximately given by the equation:

$$F_{MAX} \cong \frac{3.6}{(R_{MIN} / / Range) \bullet C_{VCO}}$$

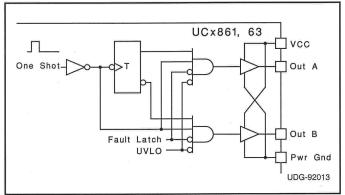
The Error Amplifier directly controls the oscillator frequency. E/A output low corresponds to minimum frequency and output high corresponds to maximum frequency. At the end of each oscillator cycle, the RC pin is discharged to one diode drop above ground. At the beginning of the oscillator cycle, V(RC) is less than Vth1 and so the output of the zero detect comparator is ignored. After V(RC) exceeds Vth1, the one shot pulse will be terminated as soon as the zero pin falls below 0.5V or V(RC) exceeds Vth2. The minimum one shot pulse width is approximately given by the equation:

Tpw(min) 0.3 R C.

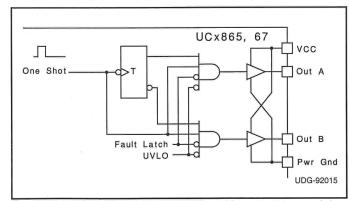
The maximum pulse width is approximately given by:

Tpw(max) 1.2 R C.

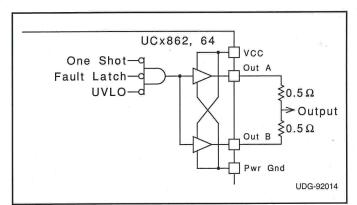
STEERING LOGIC



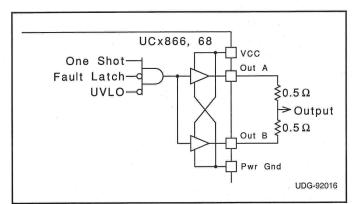
The steering logic is configured on the UC1861,63 to result in dual non-overlapping square waves at outputs A & B. This is suited to drive dual switch ZVS systems.



The steering logic is configured on the UC1865,67 to result in alternating pulse trains at outputs A & B. This is suited to drive dual switch ZCS systems.



The steering logic is configured on the UC1862,64 to result in inverted pulse trains occurring identically at both output pins. This is suited to drive single switch ZVS systems. Both outputs are available to drive the same MOSFET gate. It is advisable to join the pins with 0.5 ohm resistors.



The steering logic is configured on the UC1866,68 to result in non-inverted pulse trains occurring identically at both output pins. This is suited to drive single switch ZCS systems. Both outputs are available to drive the same MOSFET gate. It is advisable to join the pins with 0.5 ohm resistors.

APPLICATION INFORMATION (cont.)

Internal One Shot	
Out AUCx861,63	
UCx862,64	
Out AUCx865,67	
UCx866,68	UDG-92017

Figure 3. Current waveforms.



PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
5962-9203103Q2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9203103Q2A UC1863L/ 883B
5962-9203103QEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9203103QE A UC1863J/883B
5962-9203103V2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9203103V2A UC1863L QMLV
5962-9203103V2A.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9203103V2A UC1863L QMLV
UC1863J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	UC1863J
UC1863J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	UC1863J
UC1863J883B	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9203103QE A UC1863J/883B
UC1863J883B.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9203103QE A UC1863J/883B
UC1863L	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	UC1863L
UC1863L.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	UC1863L
UC1863L883B	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9203103Q2A UC1863L/ 883B
UC1863L883B.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9203103Q2A UC1863L/ 883B
UC2861DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2861DW



29-May-2025

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
						(4)	(5)		
UC2861DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2861DW
UC2863DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2863DW
UC2863DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2863DW
UC2864DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2864DW
UC2864DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2864DW
UC3861DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3861DW
UC3861DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3861DW
UC3861DWG4	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3861DW
UC3861N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	UC3861N
UC3861N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	UC3861N
UC3863DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3863DW
UC3863DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3863DW
UC3865DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3865DW
UC3865DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3865DW
UC3867DW	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3867DW
UC3867DW.A	Active	Production	SOIC (DW) 16	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3867DW
UC3867DWTR	Active	Production	SOIC (DW) 16	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3867DW
UC3867DWTR.A	Active	Production	SOIC (DW) 16	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3867DW
UC3867N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	UC3867N
UC3867N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	UC3867N
UC3867NG4	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	UC3867N

⁽¹⁾ **Status:** For more details on status, see our product life cycle.

⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

(3) RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.



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⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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OTHER QUALIFIED VERSIONS OF UC1863, UC1863-SP, UC3863 :

- Catalog : UC3863, UC1863
- Military : UC1863
- Space : UC1863-SP

NOTE: Qualified Version Definitions:

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



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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



Device	0	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
UC3867DWTR	SOIC	DW	16	2000	330.0	16.4	10.75	10.7	2.7	12.0	16.0	Q1



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PACKAGE MATERIALS INFORMATION

25-Jul-2025



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UC3867DWTR	SOIC	DW	16	2000	353.0	353.0	32.0

TEXAS INSTRUMENTS

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TUBE



- B - Alignment groove width

*All dimensions are nominal	
-----------------------------	--

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
5962-9203103Q2A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-9203103V2A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-9203103V2A.A	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1863L	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1863L.A	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1863L883B	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1863L883B.A	FK	LCCC	20	55	506.98	12.06	2030	NA
UC2861DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC2861DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC2863DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC2863DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC2864DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC2864DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC3861DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC3861DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC3861DWG4	DW	SOIC	16	40	507	12.83	5080	6.6
UC3861N	N	PDIP	16	25	506	13.97	11230	4.32
UC3861N.A	N	PDIP	16	25	506	13.97	11230	4.32
UC3863DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC3863DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC3865DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC3865DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC3867DW	DW	SOIC	16	40	507	12.83	5080	6.6
UC3867DW.A	DW	SOIC	16	40	507	12.83	5080	6.6
UC3867N	N	PDIP	16	25	506	13.97	11230	4.32
UC3867N.A	N	PDIP	16	25	506	13.97	11230	4.32
UC3867NG4	N	PDIP	16	25	506	13.97	11230	4.32

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