



THE DATASHEET OF UC2526ANG4

Regulating Pulse Width Modulator

FEATURES

- Reduced Supply Current
- Oscillator Frequency to 600kHz
- Precision Band-Gap Reference
- 7 to 35V Operation
- Dual 200mA Source/Sink Outputs
- Minimum Output Cross-Conduction
- Double-Pulse Suppression Logic
- Under-Voltage Lockout
- Programmable Soft-Start
- Thermal Shutdown
- TTL/CMOS Compatible Logic Ports
- 5 Volt Operation ($V_{IN} = V_C = V_{REF} = 5.0V$)

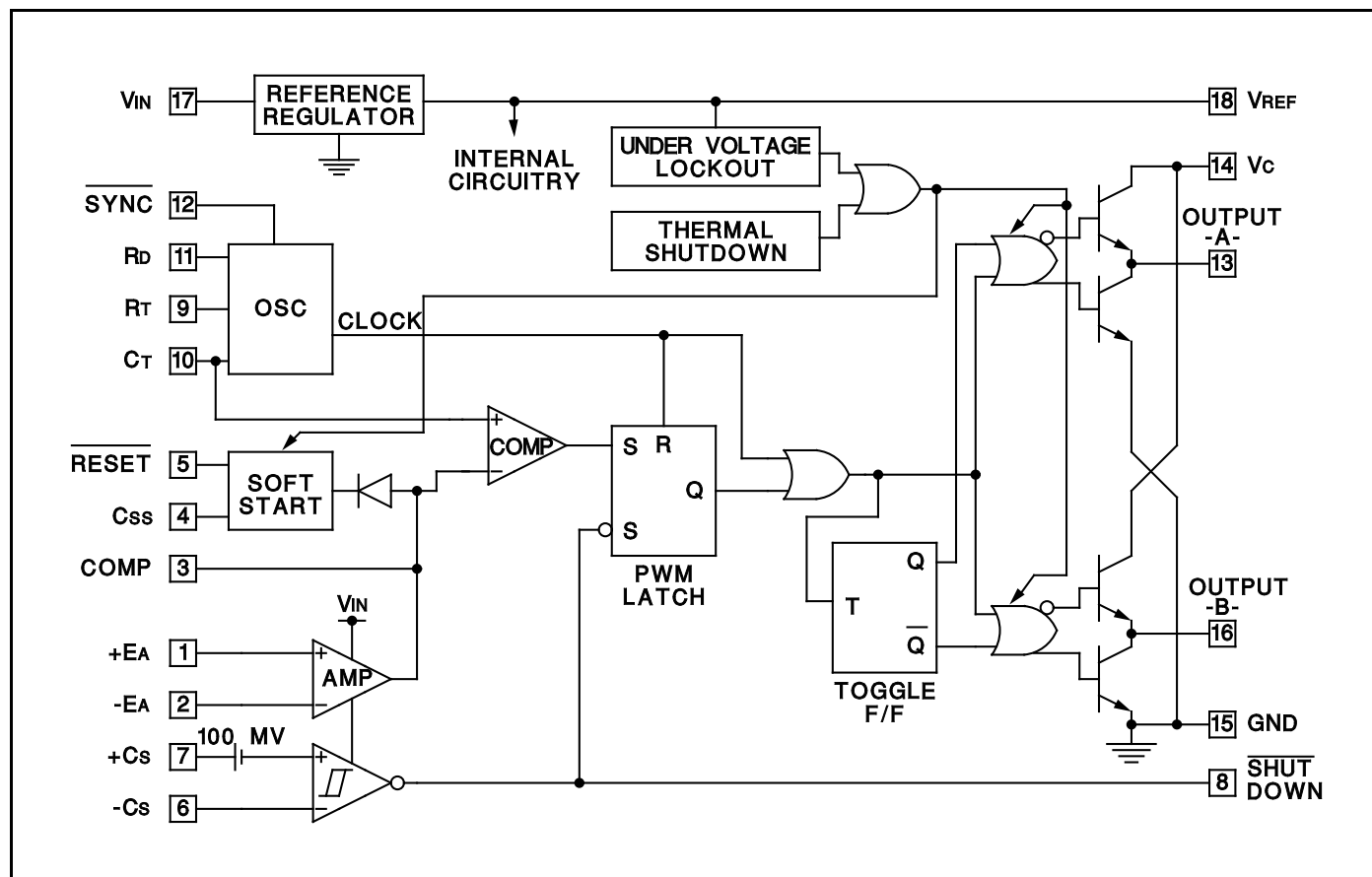
DESCRIPTION

The UC1526A Series are improved-performance pulse-width modulator circuits intended for direct replacement of equivalent non- "A" versions in all applications. Higher frequency operation has been enhanced by several significant improvements including: a more accurate oscillator with less minimum dead time, reduced circuit delays (particularly in current limiting), and an improved output stage with negligible cross-conduction current. Additional improvements include the incorporation of a precision, band-gap reference generator, reduced overall supply current, and the addition of thermal shutdown protection.

Along with these improvements, the UC1526A Series retains the protective features of under-voltage lockout, soft-start, digital current limiting, double pulse suppression logic, and adjustable deadtime. For ease of interfacing, all digital control ports are TTL compatible with active low logic.

Five volt (5V) operation is possible for "logic level" applications by connecting V_{IN} , V_C and V_{REF} to a precision 5V input supply. Consult factory for additional information.

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS (Note 1, 2)

Input Voltage (+VIN)	+40V
Collector Supply Voltage (+Vc)	+40V
Logic Inputs	-0.3V to +5.5V
Analog Inputs	-0.3V to +VIN
Source/Sink Load Current (each output)	200mA
Reference Load Current	50mA
Logic Sink Current	15mA
Power Dissipation at TA = +25°C (Note 2)	1000mW
Power Dissipation at Tc = +25°C (Note 2)	3000mW
Operating Junction Temperature	+150°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (soldering, 10 seconds)	+300°C

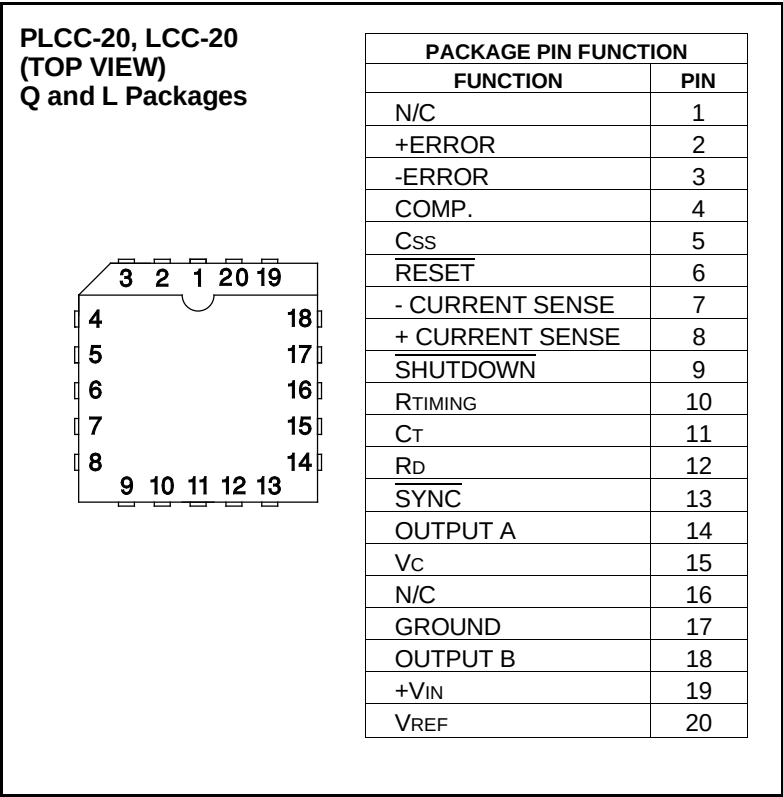
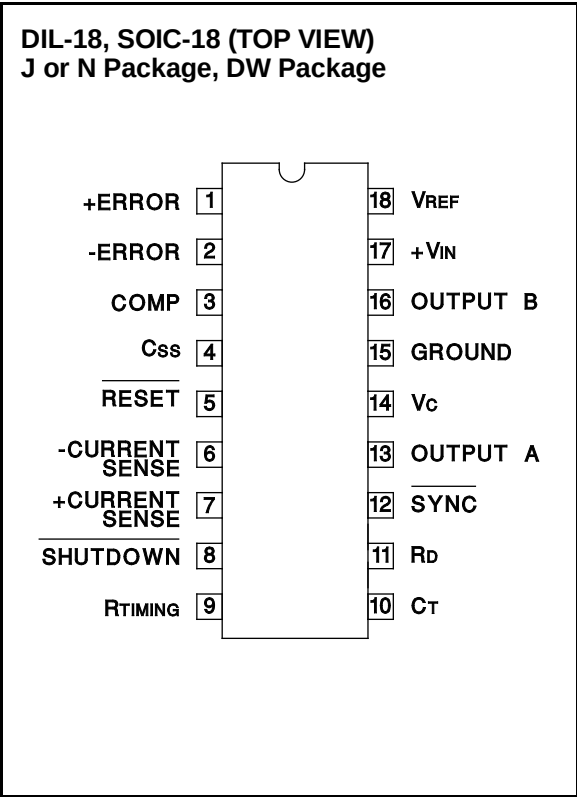
Note 1: Values beyond which damage may occur.
Note 2: Consult packaging Section of Databook for thermal limitations and considerations of package.

RECOMMENDED OPERATING CONDITIONS

(Note 3)	
Input Voltage	+7V to +35V
Collector Supply Voltage	+4.5V to +35V
Sink/Source Load Current (each output)	0 to 100mA
Reference Load Current	0 to 20mA
Oscillator Frequency Range	1Hz to 600kHz
Oscillator Timing Resistor	2kΩ to 150kΩ
Oscillator Timing Capacitor	400pF to 20μF
Available Deadtime Range at 40kHz	1% to 50%
Operating Ambient Temperature Range	
UC1526A	-55°C to +125°C
UC2526A	-25°C to +85°C
UC3526A	0°C to +70°C

Note 3: Range over which the device is functional and parameter limits are guaranteed.

CONNECTION DIAGRAMS



ELECTRICAL CHARACTERISTICS: +V_{IN} = 15V, and over operating ambient temperature, unless otherwise specified T_A = T_J.

PARAMETER	TEST CONDITIONS	UC1526A / UC2526A			UC3526A			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Reference Section (Note 4)								
Output Voltage	T _J = +25°C	4.95	5.00	5.05	4.90	5.00	5.10	V
Line Regulation	+V _{IN} = 7 to 35V		2	10		2	15	mV
Load Regulation	I _L = 0 to 20mA		5	20		5	20	mV
Temperature Stability	Over Operating T _J (Note 5)		15	50		15	50	mV
Total Output Voltage Range	Over Recommended Operating Conditions	4.90	5.00	5.10	4.85	5.00	5.15	V
Short Circuit Current	V _{REF} = 0V	25	50	100	25	50	100	mA
Under-Voltage Lockout								
RESET Output Voltage	V _{REF} = 3.8V		0.2	0.4		0.2	0.4	V
	V _{REF} = 4.7V	2.4	4.7		2.4	4.8		V
Oscillator Section (Note 6)								
Initial Accuracy	T _J = +25°C		±3	±8		±3	±8	%
Voltage Stability	+V _{IN} = 7 to 35V		0.5	1		0.5	1	%
Temperature Stability	Over Operating T _J (Note 5)		2	6		1	3	%
Minimum Frequency	R _T = 150kΩ, C _T = 20μF (Note 5)			1			1	Hz
Maximum Frequency	R _T = 2kΩ, C _T = 470pF	550			650			kHz
Sawtooth Peak Voltage	+V _{IN} = 35V		3.0	3.5		3.0	3.5	V
Sawtooth Valley Voltage	+V _{IN} = 7V	0.5	1.0		0.5	1.0		V
SYNC Pulse Width	T _J = 25°C, R _L = 2.7kΩ to V _{REF}		1.1			1.1		μs
Error Amplifier Section (Note 7)								
Input Offset Voltage	R _S ≤ 2kΩ		2	5		2	10	mV
Input Bias Current			-350	-1000		-350	-2000	nA
Input Offset Current			35	100		35	200	nA
DC Open Loop Gain	R _L ≥ 10MΩ	64	72		60	72		dB
HIGH Output Voltage	V _{PIN 1} - V _{PIN 2} ≥ 150mV, I _{SOURCE} = 100μA	3.6	4.2		3.6	4.2		V
LOW Output Voltage	V _{PIN 2} - V _{PIN 1} ≥ 150mV, I _{SINK} = 100μA		0.2	0.4		0.2	0.4	V
Common Mode Rejection	R _S ≤ 2kΩ	70	94		70	94		dB
Supply Voltage Rejection	+V _{IN} = 12 to 18V	66	80		66	80		dB
PWM Comparator (Note 6)								
Minimum Duty Cycle	V _{COMPENSATION} = +0.4V			0			0	%
Maximum Duty Cycle	V _{COMPENSATION} = +3.6V	45	49		45	49		%
Digital Ports (SYNC, SHUTDOWN, and RESET)								
HIGH Output Voltage	I _{SOURCE} = 40μA	2.4	4.0		2.4	4.0		V
LOW Output Voltage	I _{SINK} = 3.6mA		0.2	0.4		0.2	0.4	V
HIGH Input Current	V _{IH} = +2.4V		-125	-200		-125	-200	μA
LOW Input Current	V _{IL} = +0.4V		-225	-360		-225	-360	μA
Shutdown Delay	From Pin 8, T _J = 25°C		160			160		ns
Current Limit Comparator (Note 8)								
Sense Voltage	R _S ≤ 50Ω	90	100	110	80	100	120	mV
Input Bias Current			-3	-10		-3	-10	μA
Shutdown Delay	From pin 7, 100mV Overdrive, T _J = 25°C		260			260		ns

Note 4: I_L = 0mA.

Note 5: Guaranteed by design, not 100% tested in production.

Note 6: F_{OSC} = 40kHz, (R_T = 4.12kΩ ± 1%, C_T = 0.01μF ± 1%, R_D = 0 Ω).

Note 7: V_{CM} = 0 to +5.2V

Note 8: V_{CM} = 0 to +12V.

Note 9: V_C = +15V.

Note 10: V_{IN} = +35V, R_T = 4.12kΩ.

ELECTRICAL CHARACTERISTICS: +V_{IN} = 15V, and over operating ambient temperature, unless otherwise specified T_A = T_J.

PARAMETER	TEST CONDITIONS	UC1526A UC2526A			UC3526A			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Soft-Start Section								
Error Clamp Voltage	$\overline{\text{RESET}} = +0.4\text{V}$		0.1	0.4		0.1	0.4	V
Cs Charging Current	$\overline{\text{RESET}} = +2.4\text{V}$	50	100	150	50	100	150	μA
Output Drivers (Each Output) (Note 9)								
HIGH Output Voltage	ISOURCE = 20mA	12.5	13.5		12.5	13.5		V
	ISOURCE = 100mA	12	13		12	13		V
LOW Output Voltage	ISINK = 20mA		0.2	0.3		0.2	0.3	V
	ISINK = 100mA		1.2	2.0		1.2	2.0	V
Collector Leakage	VC = 40V		50	150		50	150	μA
Rise Time	CL = 1000pF (Note 5)		0.3	0.6		0.3	0.6	μs
Fall Time	CL = 1000pF (Note 5)		0.1	0.2		0.1	0.2	μs
Cross-Conduction Charge	Per cycle, TJ = 25°C		8			8		nC
Power Consumption (Note 10)								
Standby Current	$\overline{\text{SHUTDOWN}} = +0.4\text{V}$		14	20		14	20	mA

Note 4: I_L = 0mA.

Note 5: Guaranteed by design, not 100% tested in production.

Note 6: F_{osc} = 40kHz, (R_T = 4.12kΩ ± 1%, C_T = 0.01μF ± 1%, R_D = 0 Ω).

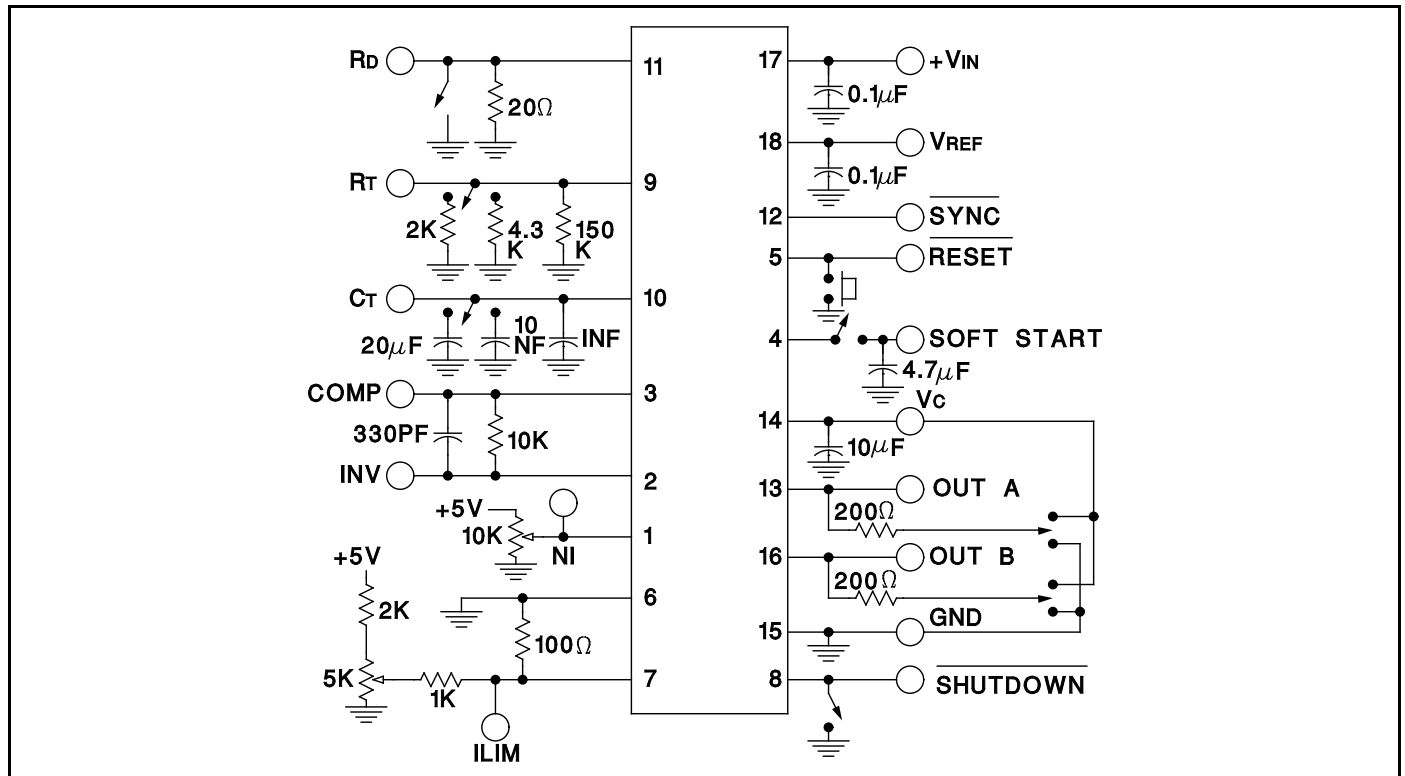
Note 7: V_{CM} = 0 to +5.2V

Note 8: V_{CM} = 0 to +12V.

Note 9: V_C = +15V.

Note 10: V_{IN} = +35V, R_T = 4.12kΩ.

Open Loop Test Circuit UC1526A



APPLICATIONS INFORMATION

Voltage Reference

The reference regulator of the UC1526A is based on a precision band-gap reference, internally trimmed to $\pm 1\%$ accuracy. The circuitry is fully active at supply voltages above +7V, and provides up to 20mA of load current to external circuitry at +5.0V. In systems where additional current is required, an external PNP transistor can be used to boost the available current. A rugged low frequency audio-type transistor should be used, and lead lengths between the PWM and transistor should be as short as possible to minimize the risk of oscillations. Even so, some types of transistors may require collector-base capacitance for stability. Up to 1 amp of load current can be obtained with excellent regulation if the device selected maintains high current gain.

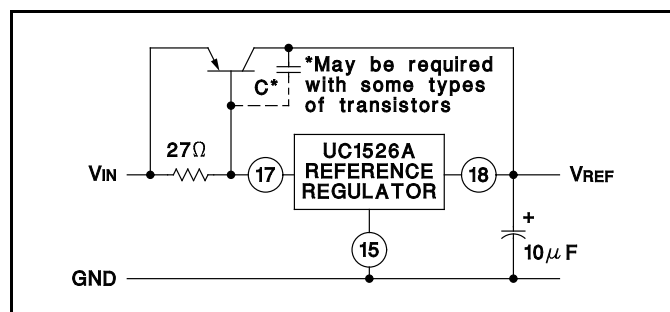


Figure 1. Extending Reference Output Current

Under-Voltage Lockout

The under-voltage lockout circuit protects the UC1526A and the power devices it controls from inadequate supply voltage. If +VIN is too low, the circuit disables the output drivers and holds the RESET pin LOW. This prevents spurious output pulses while the control circuitry is stabilizing, and holds the soft-start timing capacitor in a discharged state.

The circuit consists of a +1.2V bandgap reference and comparator circuit which is active when the reference voltage has risen to $3V_{BE}$ or +1.8V at 25°C. When the reference voltage rises to approximately +4.4V, the circuit enables the output drivers and releases the RESET pin, allowing a normal soft-start. The comparator has 350mV of hysteresis to minimize oscillation at the trip point. When +VIN to the PWM is removed and the reference drops to +4.2V, the under-voltage circuit pulls RESET LOW again. The soft-start capacitor is immediately discharged, and the PWM is ready for another soft-start cycle.

The UC1526A can operate from a +5V supply by connecting the VREF pin to the +VIN pin and maintaining the supply between +4.8 and +5.2V.

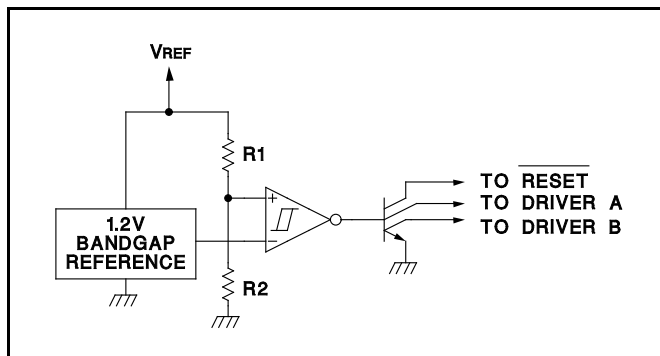


Figure 2. Under-Voltage Lockout Schematic

Soft-Start Circuit

The soft-start circuit protects the power transistors and rectifier diodes from high current surges during power supply turn-on. When supply voltage is first applied to the UC1526A, the under-voltage lockout circuit holds RESET LOW with Q3. Q1 is turned on, which holds the soft-start capacitor voltage at zero. The second collector of Q1 clamps the output of the error amplifier to ground, guaranteeing zero duty cycle at the driver outputs. When the supply voltage reaches normal operating range, RESET will go HIGH. Q1 turns off, allowing the internal 100µA current source to charge Cs. Q2 clamps the error amplifier output to $1V_{BE}$ above the voltage on Cs. As the soft-start voltage ramps up to +5V, the duty cycle of the PWM linearly increases to whatever value the voltage regulation loop requires for an error null.

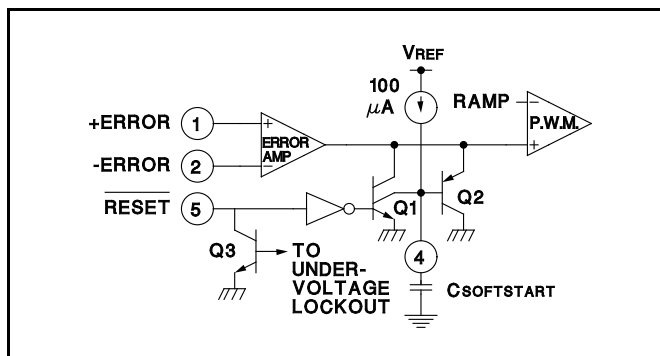


Figure 3. Soft-Start Circuit Schematic

Digital Control Ports

The three digital control ports of the UC1526A are bi-directional. Each pin can drive TTL and 5V CMOS logic directly, up to a fan-out of 10 low-power Schottky gates. Each pin can also be directly driven by open-collector TTL, open-drain CMOS, and open-collector voltage comparators; fan-in is equivalent to 1 low-power Schottky gate. Each port is normally HIGH; the pin is pulled LOW to activate the particular function. Driving SYNC LOW initiates a discharge cycle in the oscillator. Pulling SHUTDOWN LOW immediately inhibits all PWM output pulses. Holding RESET LOW discharges the soft-start

APPLICATIONS INFORMATION (cont.)

capacitor. The logic threshold is +1.1V at +25°C. Noise immunity can be gained at the expense of fan-out with an external 2k pull-up resistor to +5V.

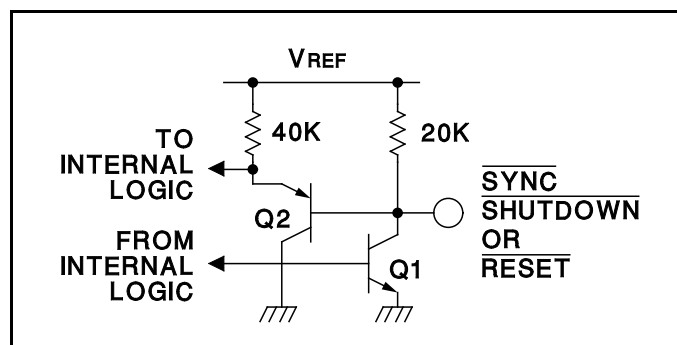


Figure 4. Digital Control Port Schematic

Oscillators

The oscillator is programmed for frequency and dead time with three components: R_T , C_T and R_D . Two waveforms are generated: a sawtooth waveform at pin 10 for pulse width modulation, and a logic clock at pin 12. The following procedure is recommended for choosing timing values:

1. With $R_D = 0\Omega$ (pin 11 shorted to ground) select values for R_T and C_T from the graph on page 4 to give the desired oscillator period. Remember that the frequency at each driver output is half the oscillator frequency, and the frequency at the +Vc terminal is the same as the oscillator frequency.
2. If more dead time is required, select a larger value of R_D . At 40kHz dead time increases by 400ns/ Ω .
3. Increasing the dead time will cause the oscillator frequency to decrease slightly. Go back and decrease the value of R_T slightly to bring the frequency back to the nominal design value.

The UC1526A can be synchronized to an external logic clock by programming the oscillator to free-run at a frequency 10% slower than the SYNC frequency.

A periodic LOW logic pulse approximately 0.5 μ s wide at

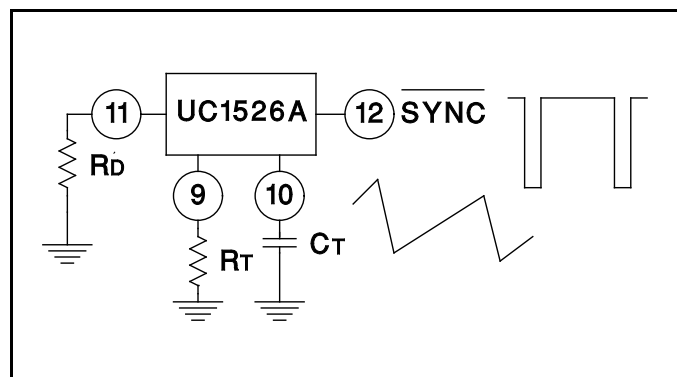


Figure 5. Oscillator Connections and Waveforms

the SYNC pin will then lock the oscillator to the external frequency.

Multiple devices can be synchronized together by programming one master unit for the desired frequency, and then sharing its sawtooth and clock waveforms with the slave units. All C_T terminals are connected to the C_T pin of the master and all SYNC terminals are likewise connected to the SYNC pin of the master. Slave R_T terminals are left open or connected to VREF. Slave R_D terminal may be either left open or grounded.

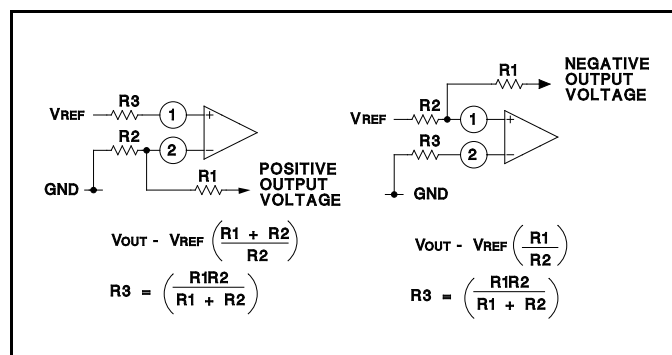


Figure 6. Error Amplifier Connections

Error Amplifier

The error amplifier is a transconductance design, with an output impedance of 2M Ω . Since all voltage gain takes place at the output pin, the open-loop gain/frequency characteristics can be controlled with shunt reactance to ground. When compensated for unity-gain stability with 100pF, the amplifier has an open-loop pole at 800Hz.

The input connections to the error amplifier are determined by the polarity of the switching supply output voltage. For positive supplies, the common-mode voltage is +5.0V and the feedback connections in Figure 6A are used. With negative supplies, the common-mode voltage is ground and the feedback divider is connected between the negative output and the +5.0V reference voltage, as shown in Figure 6B.

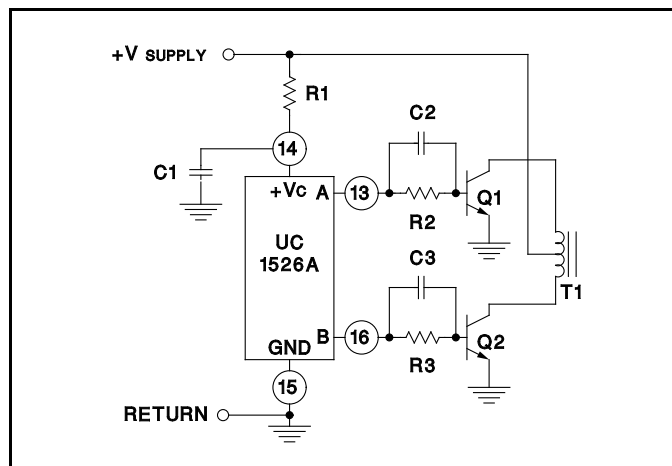


Figure 7. Push-Pull Configuration

APPLICATIONS INFORMATION (cont.)

Output Drivers

The totem pole output drivers of the UC1526A are designed to source and sink 100mA continuously and 200mA peak. Loads can be driven either from the output pins 13 and 16, or from the +Vc, as required.

Since the bottom transistor of the totem-pole is allowed to saturate, there is a momentary conduction path from the

+Vc terminal to ground during switching; however, improved design has limited this cross-conduction period to less than 50ns. Capacitor decoupling at Vc is recommended and careful grounding of Pin 15 is needed to insure that high peak sink currents from a capacitive load do not cause ground transients.

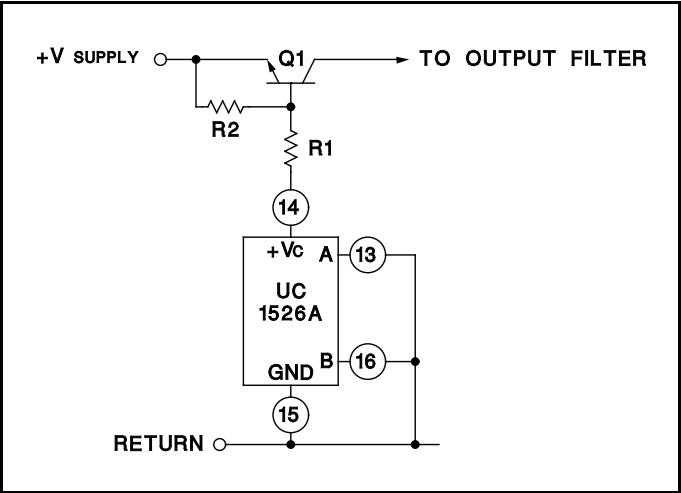


Figure 8. Single-Ended Configuration

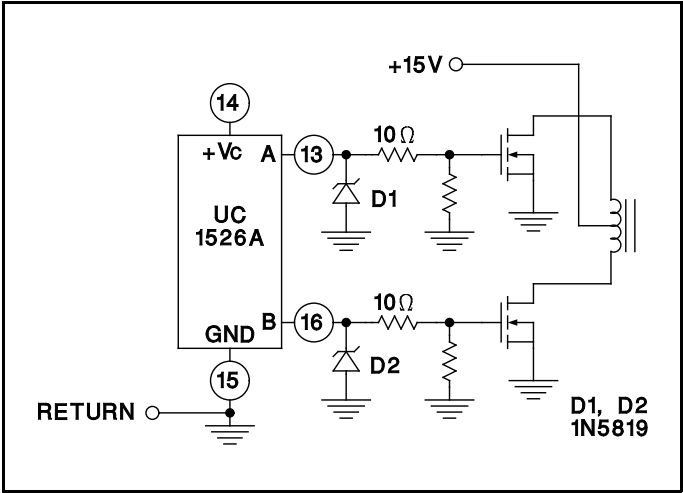
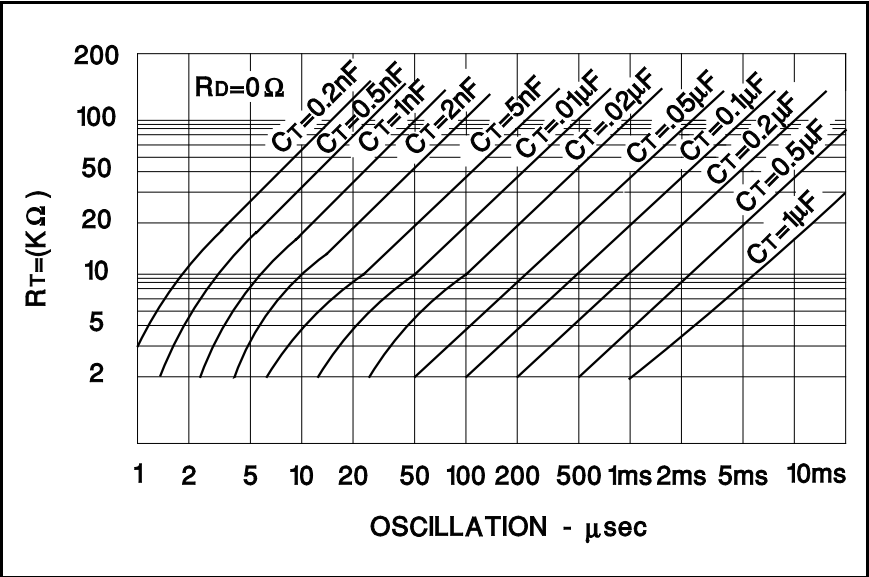


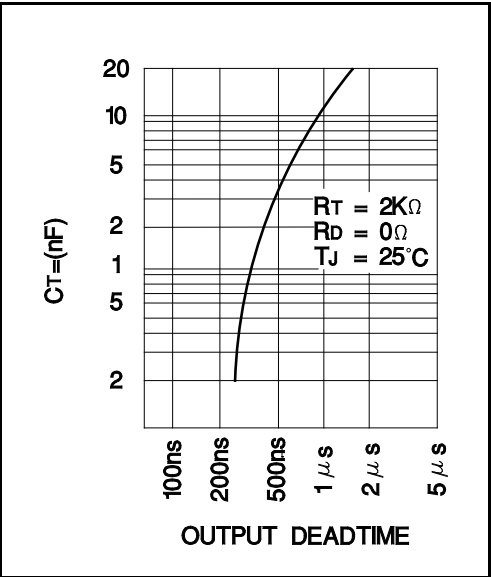
Figure 9. Driving N-Channel Power MOSFETs

TYPICAL CHARACTERISTICS

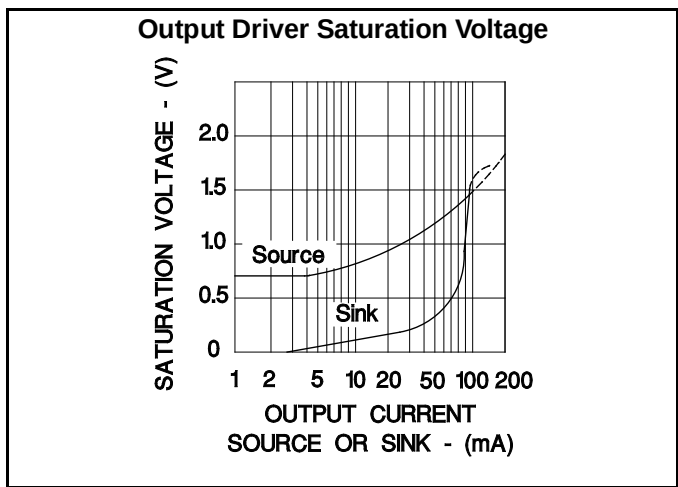
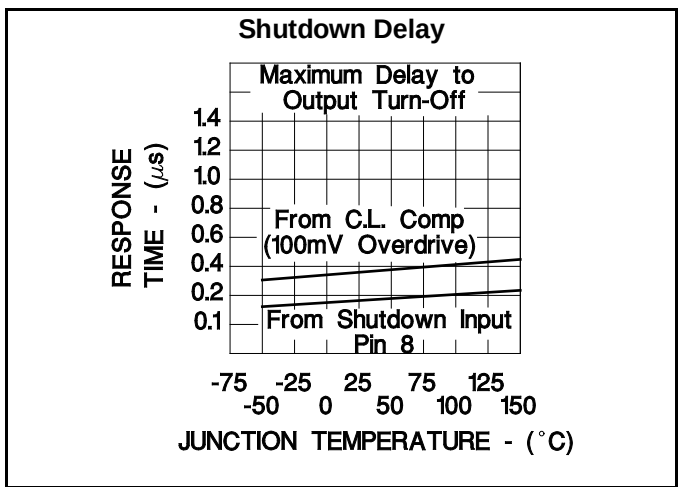
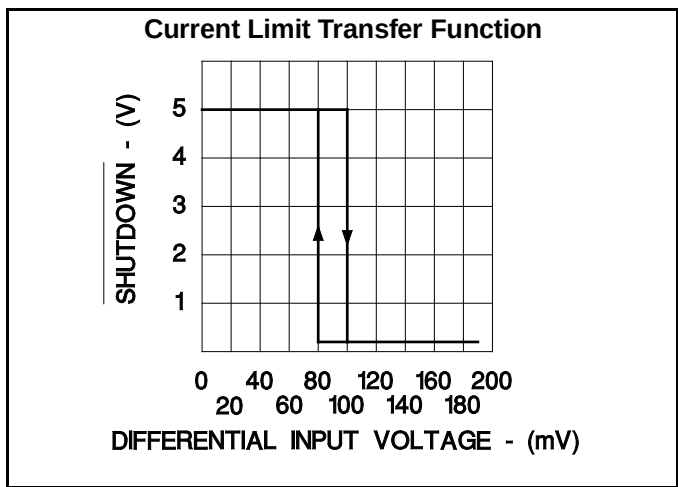
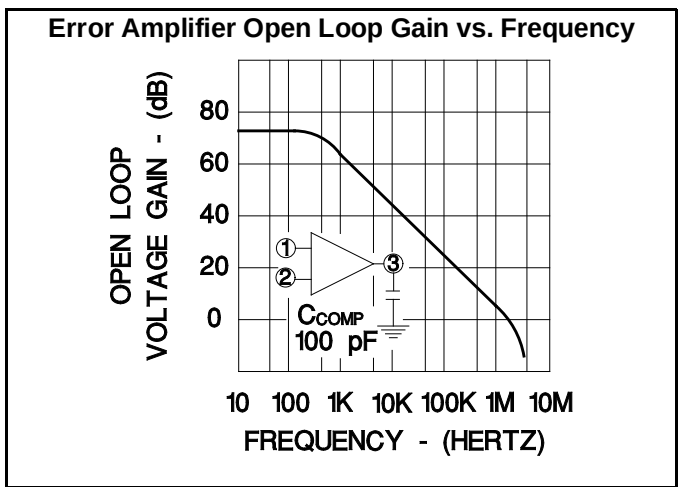
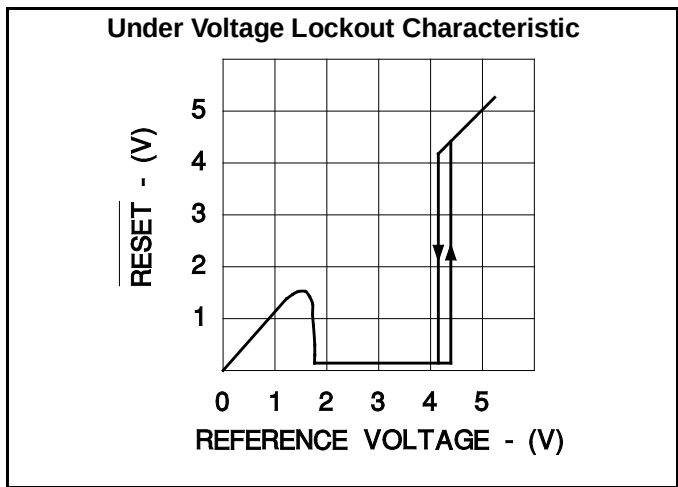
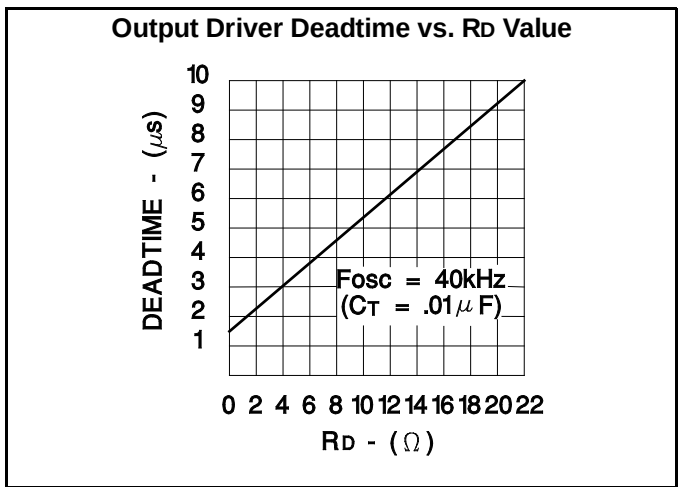
OSCILLATOR PERIOD vs R_T and C_T



OUTPUT BLANKING



TYPICAL CHARACTERISTICS (Cont.)



PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
85515022A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	85515022A UC1526AL/ 883B	Samples
8551502VA	ACTIVE	CDIP	J	18	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	8551502VA UC1526AJ/883B	Samples
UC1526AJ	ACTIVE	CDIP	J	18	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	UC1526AJ	Samples
UC1526AJ883B	ACTIVE	CDIP	J	18	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	8551502VA UC1526AJ/883B	Samples
UC1526AL	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	UC1526AL	Samples
UC1526AL883B	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	85515022A UC1526AL/ 883B	Samples
UC2526ADW	ACTIVE	SOIC	DW	18	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-25 to 85	UC2526ADW	Samples
UC2526ADWG4	ACTIVE	SOIC	DW	18	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-25 to 85	UC2526ADW	Samples
UC2526ADWTR	ACTIVE	SOIC	DW	18	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-25 to 85	UC2526ADW	Samples
UC2526AN	ACTIVE	PDIP	N	18	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	UC2526AN	Samples
UC2526ANG4	ACTIVE	PDIP	N	18	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	UC2526AN	Samples
UC3526ADW	ACTIVE	SOIC	DW	18	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3526ADW	Samples
UC3526ADWG4	ACTIVE	SOIC	DW	18	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3526ADW	Samples
UC3526ADWTR	ACTIVE	SOIC	DW	18	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3526ADW	Samples
UC3526AN	ACTIVE	PDIP	N	18	20	RoHS & Green	NIPDAU	N / A for Pkg Type	0 to 70	UC3526AN	Samples
UC3526J	ACTIVE	CDIP	J	18	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	0 to 70	UC3526J	Samples

⁽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⁾ **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of ≤ 1000 ppm threshold. Antimony trioxide based flame retardants must also meet the ≤ 1000 ppm threshold requirement.

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

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

⁽⁵⁾ Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

⁽⁶⁾ Lead finish/Ball material - Orderable Devices 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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OTHER QUALIFIED VERSIONS OF UC1526A, UC2526A, UC3526A, UC3526M :

● Catalog : [UC3526A](#), [UC3526AM](#), [UC3526](#)

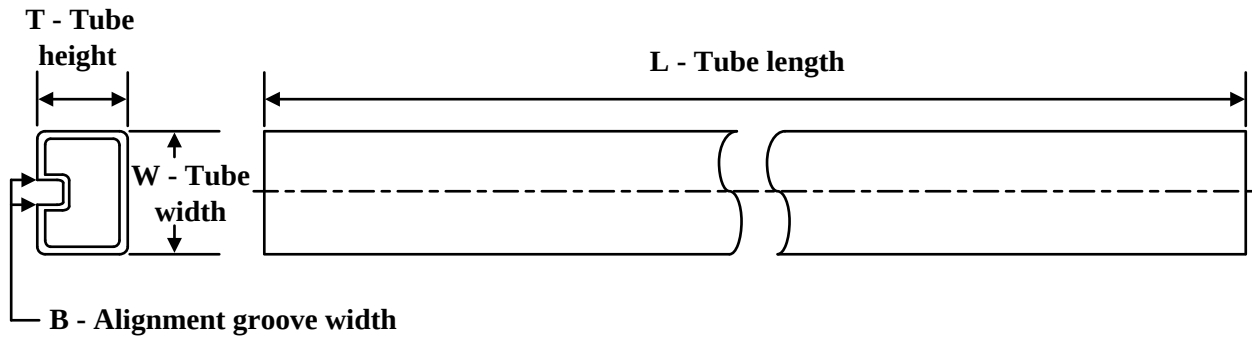
● Military : [UC2526AM](#), [UC1526A](#), [UC1526](#)

NOTE: Qualified Version Definitions:

● Catalog - TI's standard catalog product

- Military - QML certified for Military and Defense Applications

TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
85515022A	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1526AL	FK	LCCC	20	55	506.98	12.06	2030	NA
UC1526AL883B	FK	LCCC	20	55	506.98	12.06	2030	NA
UC2526ADW	DW	SOIC	18	40	507	12.83	5080	6.6
UC2526ADWG4	DW	SOIC	18	40	507	12.83	5080	6.6
UC2526AN	N	PDIP	18	20	506	13.97	11230	4.32
UC2526ANG4	N	PDIP	18	20	506	13.97	11230	4.32
UC3526ADW	DW	SOIC	18	40	507	12.83	5080	6.6
UC3526ADWG4	DW	SOIC	18	40	507	12.83	5080	6.6
UC3526AN	N	PDIP	18	20	506	13.97	11230	4.32

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