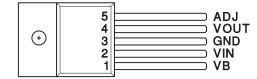
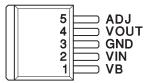
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- Fast Transient Response
- 10-mA to 3-A Load Current
- Short Circuit Protection
- Maximum Dropout of 450-mV at 3-A Load Current
- Separate Bias and VIN Pins
- Available in Adjustable or Fixed-Output Voltages
- 5-Pin Package Allows Kelvin Sensing of Load Voltage
- Reverse Current Protection

5-PIN TO-220 T PACKAGE (TOP VIEW)







Note: Tab = Ground

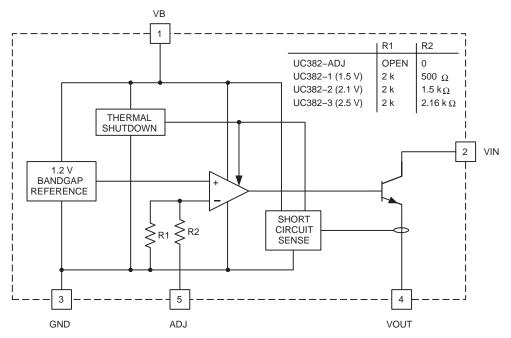
description

The UC382 is a low-dropout-linear regulator providing a quick response to fast load changes. Combined with its precision onboard reference, the UC382 excels at driving GTL and BTL buses. Due to its fast response to load transients, the total capacitance required to decouple the regulator's output can be significantly decreased when compared to standard LDO linear regulators.

Dropout voltage (VIN to VOUT) is only 450 mV maximum at 100°C and 350 mV typical at 3-A load.

The onboard bandgap reference is stable with temperature and scaled for a 1.2-V input to the internal-power amplifier. The UC382 is available in fixed-output voltages of 1.5 V, 2.1 V, or 2.5 V. The output voltage of the adjustable version can be set with two external resistors. If the external resistors are omitted, the output voltage defaults to 1.2 V.

block diagram



₩.

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.

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TEXAS INSTRUMENTS

UC282-1, UC282-2, UC282-3, UC282-ADJ, UC382-1, UC382-2, UC382-3, UC382-ADJ FAST LDO LINEAR REGULATOR

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absolute maximum ratings over operating	g free-air temperature (unless otherwise noted) ^{†‡}
VB	
VIN	7.5 V
Output voltage	1.2 V to 6.0 V
Storage temperature, T _{stq}	–65°C to 150°C
Junction temperature, T _J	
	300°C

AVAILABLE OPTIONS(1)

				PACKAGE	D DEVICES					
_		TO-220 (T) TO-263 (TD) ⁽²⁾								
TJ		OUTPUT	OUTPUT	VOLTAGE						
	1.5 V	2.1 V	2.5 V	1.2 V or ADJ	1.5 V	2.1 V	2.5 V	1.2 V or ADJ		
–40°C to 100°C	282T-1	282T-2	282T-3	282T-ADJ	282TD-1	282TD-2	282TD-3	282TD-ADJ		
0°C to 100°C	382T-1	382T-2	382T-3	382T-ADJ	382TD-1	382TD-2	382TD-3	382TD-ADJ		

^{1.} For more package and ordering information, see the Package Option Addendum located at the end of this data sheet.

electrical characteristics, $T_A = -40^{\circ}\text{C}$ to 100°C for the UC282-X series and 0°C to 100°C for the UC382-X, VB = 5 V, VIN = 3.3 V, VOUT = 2.5 V for the UC382-ADJ, $T_A = T_J$, (unless otherwise stated)

UC382-3 fixed 2.5 V, 3-A family

PARAMETERS	TE	ST CONDITIONS	MIN	TYP	MAX	UNITS
Outratualisms (I	UC382-3		2.475	2.500	2.525	V
Output voltage (I _{VOUT} = 100 mA)	UC282-3		2.450	2.500	2.525	V
Load regulation	I _{VOUT} = 10 mA to 3 A	4		0.5	4	mV
VIN PSSR			80	100		dB
VB PSSR			50	60		dB
	I _{VOUT} = 3 A,	T _J = 25°C		350	425	mV
VIN dropout voltage = VIN-VOUT	I _{VOUT} = 3 A,	UC382-3		350	450	mV
	I _{VOUT} = 3 A,	UC282-3		350	500	mV
VP dramant VP VOLIT	I _{VOUT} = 3 A,	UC382-3		1.8	2.10	V
VB dropout = VB–VOUT	I _{VOUT} = 3 A,	UC282-3		1.8	2.20	V
Short circuit current limit			3.3		4.5	Α
VP	I _{VOUT} = 10 mA			6	11	mA
VB current	I _{VOUT} = 3 A			18	60	mA
VIN current	I _{VOUT} = 3 A		2.94	2.97		А



[†] 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.

[‡]Currents are positive into, negative out of the specified terminal. Consult Packaging Section of Databook for thermal limitations and considerations of packages.

^{2.} For 50 piece reel, add KTTT (e.g., UC282TDKTTT-1); for 500 piece reel, add TR (e.g., UC282TDTR-1).

UC282-1, UC282-2, UC282-3, UC282-ADJ, UC382-1, UC382-2, UC382-3, UC382-ADJ FAST LDO LINEAR REGULATOR

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electrical characteristics, $T_A = -40^{\circ}C$ to $100^{\circ}C$ for the UC282-X series and $0^{\circ}C$ to $100^{\circ}C$ for the UC382-X, VB = 5 V, VIN = 3.3 V, VOUT = 2.5 V for the UC382-ADJ, $T_A = T_J$, (unless otherwise stated)

UC382-2 fixed 2.1 V, 3-A family

PARAMETERS	TE	ST CONDITIONS	MIN	TYP	MAX	UNITS
Output wells as (I	UC382-2		2.079	2.100	2.121	V
Output voltage (I _{VOUT} = 100 mA)	UC282-2		2.058	2.100	2.121	V
Load regulation	$I_{VOUT} = 10 \text{ mA to } 3 \text{ A}$	4		0.5	4	mV
VIN PSSR			80	100		dB
VB PSSR			52	62		dB
	I _{VOUT} = 3 A,	T _J = 25°C		350	425	mV
VIN dropout voltage = VIN-VOUT	I _{VOUT} = 3 A,	UC382-2		350	450	mV
	I _{VOUT} = 3 A,	UC282-2		350	500	mV
VP down and VP VOLIT	I _{VOUT} = 3 A,	UC382-2		1.8	2.10	V
VB dropout = VB-VOUT	I _{VOUT} = 3 A,	UC282-2		1.8	2.20	V
Short circuit current limit			3.3		4.5	Α
VP.	I _{VOUT} = 10 mA			6	11	mA
VB current	I _{VOUT} = 3 A			18	60	mA
VIN current	I _{VOUT} = 3 A		2.94	2.97		Α

UC382-1 fixed 1.5 V, 3-A family

PARAMETERS	TE	ST CONDITIONS	MIN	TYP	MAX	UNITS
	UC382-1		1.485	1.500	1.515	V
Output voltage (I _{VOUT} = 100 mA)	UC282-1		1.470	1.500	1.515	V
Load regulation	I _{VOUT} = 10 mA to 3 A	A		0.5	4	mV
VIN PSSR			80	100		dB
VB PSSR			55	65		dB
	I _{VOUT} = 3 A,	T _J = 25°C		350	425	mV
VIN dropout voltage = VIN-VOUT	I _{VOUT} = 3 A,	UC382-1		350	450	mV
	$I_{VOUT} = 3 A$	UC282-1		350	500	mV
VD dramate VD VOLIT	$I_{VOUT} = 3 A$	UC382-1		1.8	2.10	V
VB dropout = VB-VOUT	$I_{VOUT} = 3 A$	UC282-1		1.8	2.20	V
Short circuit current limit			3.3		4.5	Α
VD	I _{VOUT} = 10 mA			6	11	mA
VB current	I _{VOUT} = 3 A			18	60	mA
VIN current	I _{VOUT} = 3 A		2.94	2.97		Α

UC282-1, UC282-2, UC282-3, UC282-ADJ, UC382-1, UC382-2, UC382-3, UC382-ADJ FAST LDO LINEAR REGULATOR

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electrical characteristics, $T_A = -40^{\circ}\text{C}$ to 100°C for the UC282-X series and 0°C to 100°C for the UC382-X, VB = 5 V, VIN = 3.3 V, VOUT = 2.5 V for the UC382-ADJ, $T_A = T_J$, (unless otherwise stated)

UC382-ADJ adjustable, 3-A family

PARAMETERS	TE	ST CONDITIONS	MIN	TYP	MAX	UNITS
AD Localita are (I	UC382-ADJ		1.188	1.200	1.212	V
ADJ voltage (I _{VOUT} = 100 mA)	UC282-ADJ		1.176	1.200	1.212	V
Load regulation	I _{VOUT} = 10 mA to 3 A	Ą		0.5	4	mV
VIN PSSR	VOUT programmed for	or 2.5 V	80	100		dB
VB PSSR	VOUT programmed for	or 2.5 V	50	60		dB
	I _{VOUT} = 3 A,	T _J = 25°C		350	425	mV
VIN dropout voltage = VIN-VOUT	I _{VOUT} = 3 A,	UC382-ADJ		350	450	mV
	I _{VOUT} = 3 A,	UC282-ADJ		350	500	mV
VP decreed VP VOLT	I _{VOUT} = 3 A,	UC382-ADJ		1.8	2.10	V
VB dropout = VB-VOUT	I _{VOUT} = 3 A,	UC282-ADJ		1.8	2.20	V
Short circuit current limit			3.3		4.5	Α
	I _{VOUT} = 10 mA			6	11	mA
VB current	I _{VOUT} = 3 A	<u> </u>		18	60	mA
VIN current	I _{VOUT} = 3 A		2.94	2.97		Α

pin descriptions

ADJ: In the adjustable version, the user programs the output voltage with two external resistors. The resistors should be 0.1% for high accuracy. The output amplifier is configured as a non-inverting-operational amplifier. The resistors should meet the criteria of R3 || R4 < 100 Ω . Connect ADJ to VOUT for an output voltage of 1.2 V. Note that the point at which the feedback network is connected to the output is the Kelvin sense point. For -1, -2, and -3 versions, ADJ pin is tied to VOUT to obtain specified output voltage.

GND: For accurate results, the GND pin should be referenced to the load ground.

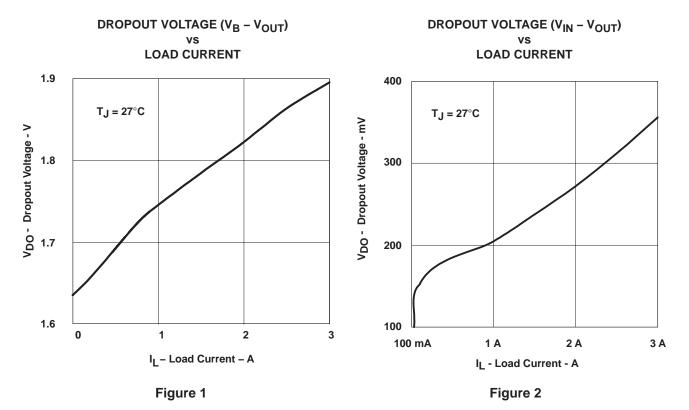
VB: Supplies power to all circuits of the regulator except the collector of the output-power transistor. The 2-V headroom from VB to VOUT allows the use of a Darlington output stage for inherently-low-output impedance and fast response. (Dropout is derated for junction temperatures below 0°C.)

VIN: Supplies the current to the collector of the output-power transistor only. The dropout (VIN–VOUT) is under 100 mV for light loads; maximum dropout is 450 mV at 3 A for $T_J = 0^{\circ}$ C to 100° C. (Dropout is derated for junction temperatures over 100° C.) At full load, the majority of the VB current is going to the load.

VOUT: This pin should be connected to the load via a low impedance path. Avoid connectors which add significant inductance and resistance. Note that even though a Kelvin sense is available through a 5-pin package, care must be taken since voltage drops along wire traces add to the dropout voltage.



pin descriptions (continued)



APPLICATION INFORMATION

The UC382 is easy to use. The adjustable version requires two 0.1% resistors to set the output voltage. The fixed versions of the UC382 require no external resistors. All versions of the UC382 require decoupling capacitors on the input and output. In a typical application, VB and VIN are driven from switching power supplies which may have large filter capacitors at their outputs. If the UC382 is further than 12 inches from the power supply, it is recommended to add local decoupling as close as possible to the linear regulator.

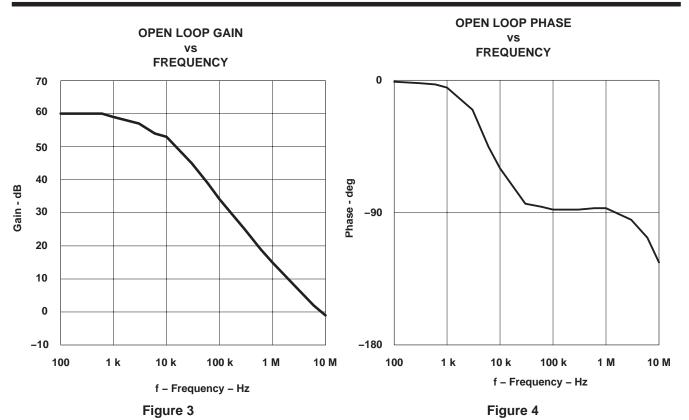
Decouple the output of the UC382 with at least 100 μ F of high-quality tantalum or Sanyo OSCON capacitors close to the VOUT pin for maximum stability. Many applications involving Ultra-Fast GTL or BTL applications require additional capacitance close to the load. The exact amount will vary according to speed and magnitude of the load transients and the tolerance allowed for transients on VOUT. When specifying the decoupling capacitors, the series resistance of the capacitor bank is an important factor in its ability to filter load transients.

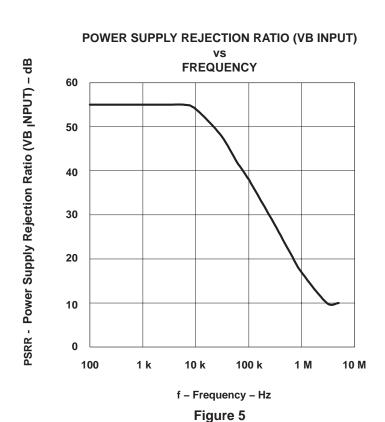
The UC382 allows for Kelvin sensing the voltage at the load. This improves regulation performance and eliminates the voltage drops due to wire-trace resistance. This voltage drop must be added to the headroom (VIN to VOUT and VB to VOUT). The dropout of 450 mV is measured at the pins and does not include additional drops due to trace resistance. The minimum load current is 10 mA.

Two or more UC382's may be used in parallel. While stable, this arrangement does degrade the transient response.



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APPLICATION INFORMATION

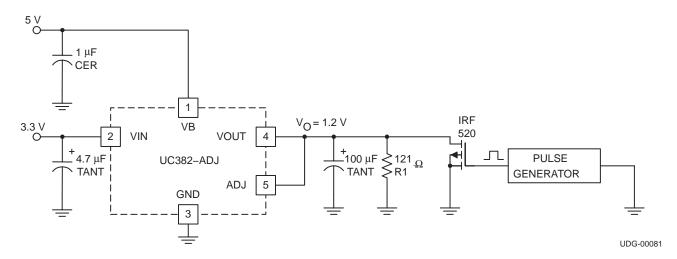


Figure 6. Transient Test Circuit

10 mA to 3 A/μs Load Transient Response

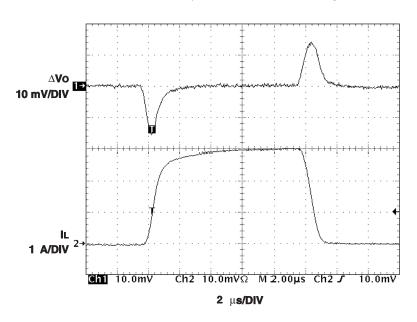


Figure 7

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APPLICATION INFORMATION

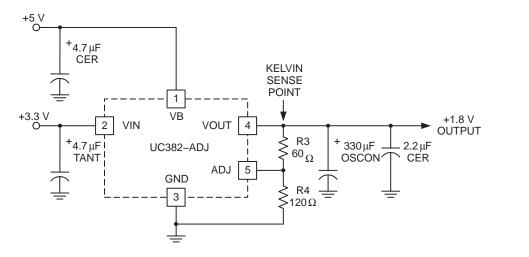


Figure 8. Typical UC382-ADJ Application

UDG-00082

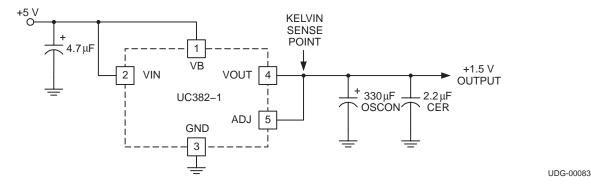


Figure 9. Typical UC382-1, -2, or -3 Application





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PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
UC282T-1	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	-40 to 100	UC282T-1	Samples
UC282T-2	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	-40 to 100	UC282T-2	Samples
UC282T-3	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	-40 to 100	UC282T-3	Samples
UC282T-ADJ	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	-40 to 100	UC282T-ADJ	Samples
UC282TD-1	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		
UC282TD-2	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		
UC282TD-3	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		
UC282TD-ADJ	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		
UC282TDKTTT-1	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-1	Samples
UC282TDKTTT-2	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100	UC282TD-2	
UC282TDKTTT-2G3	ACTIVE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		Samples
UC282TDKTTT-3	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-3	Samples
UC282TDKTTT-ADJ	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-ADJ	Samples
UC282TDKTTT-ADJG3	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-ADJ	Samples
UC282TDTR-1	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-1	Samples
UC282TDTR-3	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-3	Samples
UC282TDTR-ADJ	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	-40 to 100	UC282TD-ADJ	Samples





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Orderable Device		Package Type	Package Drawing	Pins	U	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Sample
	(1)				Qty	(2)	(6)	(3)		(4/5)	
UC382T-1	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	-40 to 100	UC382T-1	Sampl
UC382T-2	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type 0 to 100		UC382T-2	Samp
UC382T-3	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	0 to 100	UC382T-3	Samp
UC382T-ADJ	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	0 to 100	UC382T-ADJ	Samp
UC382T-ADJG3	ACTIVE	TO-220	KC	5	50	Green (RoHS & no Sb/Br)	CU SN	N / A for Pkg Type	0 to 100	UC382T-ADJ	Samp
UC382TD-1	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	-40 to 100		
UC382TD-2	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	0 to 100		
UC382TD-3	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	0 to 100		
UC382TD-ADJ	OBSOLETE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	0 to 100		
UC382TDKTTT-2	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 70	UC382TD-2	Samp
UC382TDKTTT-3	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 70	UC382TD-3	Samp
UC382TDKTTT-ADJ	ACTIVE	DDPAK/ TO-263	KTT	5	50	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 100	UC382TD-ADJ	Samp
UC382TDKTTT-ADJG3	ACTIVE	DDPAK/ TO-263	KTT	5		TBD	Call TI	Call TI	0 to 100		Samp
UC382TDTR-3	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 100	UC382TD-3	Samp
UC382TDTR-ADJ	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR 0 to 100		UC382TD-ADJ	Samp
UC382TDTR-ADJG3	ACTIVE	DDPAK/ TO-263	KTT	5	500	Green (RoHS & no Sb/Br)	CU SN	Level-2-260C-1 YEAR	0 to 100	UC382TD-ADJ	Samp

⁽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.



PACKAGE OPTION ADDENDUM

24-Jan-2017

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.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. **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, or 2) lead-based die adhesive used between

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, or 2) lead-based die adhesive used between 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 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.
- (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/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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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 Customer on an annual basis.

PACKAGE MATERIALS INFORMATION

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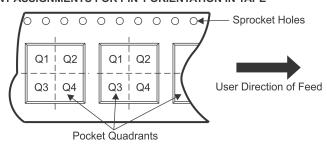
TAPE AND REEL INFORMATION



TAPE DIMENSIONS KO P1 BO W Cavity A0

	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

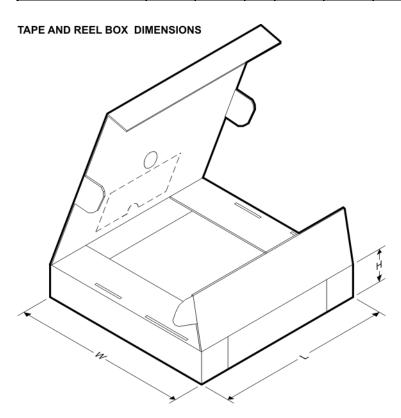
Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
UC282TDKTTT-1	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC282TDKTTT-3	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC282TDKTTT-ADJ	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC282TDTR-1	DDPAK/ TO-263	KTT	5	500	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC282TDTR-3	DDPAK/ TO-263	KTT	5	500	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC282TDTR-ADJ	DDPAK/ TO-263	KTT	5	500	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC382TDKTTT-2	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC382TDKTTT-3	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC382TDKTTT-ADJ	DDPAK/ TO-263	KTT	5	50	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC382TDTR-3	DDPAK/ TO-263	KTT	5	500	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2
UC382TDTR-ADJ	DDPAK/	KTT	5	500	330.0	24.4	10.6	15.6	4.9	16.0	24.0	Q2



PACKAGE MATERIALS INFORMATION

www.ti.com 24-Jan-2017

Device	_	Package Drawing	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	` '	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
	TO-263										

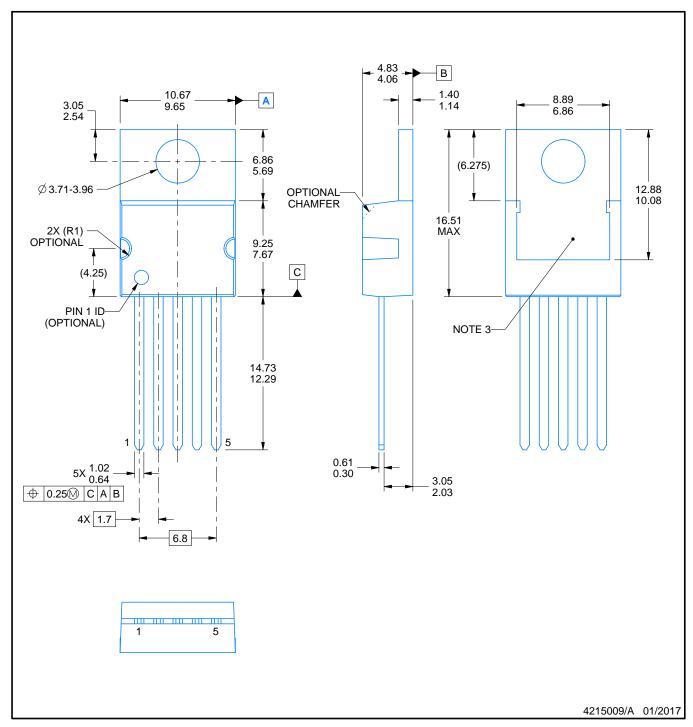


*All dimensions are nominal

All ullilensions are norminal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UC282TDKTTT-1	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC282TDKTTT-3	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC282TDKTTT-ADJ	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC282TDTR-1	DDPAK/TO-263	KTT	5	500	367.0	367.0	45.0
UC282TDTR-3	DDPAK/TO-263	KTT	5	500	367.0	367.0	45.0
UC282TDTR-ADJ	DDPAK/TO-263	KTT	5	500	367.0	367.0	45.0
UC382TDKTTT-2	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC382TDKTTT-3	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC382TDKTTT-ADJ	DDPAK/TO-263	KTT	5	50	367.0	367.0	45.0
UC382TDTR-3	DDPAK/TO-263	KTT	5	500	367.0	367.0	45.0
UC382TDTR-ADJ	DDPAK/TO-263	KTT	5	500	367.0	367.0	45.0



TO-220

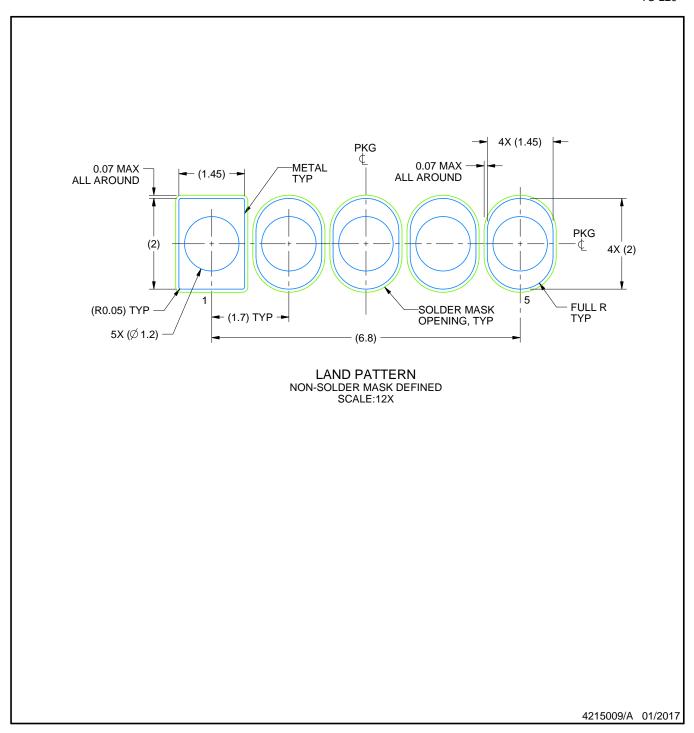


NOTES:

- All controlling linear dimensions are in inches. Dimensions in brackets are in millimeters. Any dimension in brackets or parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
 This drawing is subject to change without notice.
- 3. Shape may vary per different assembly sites.

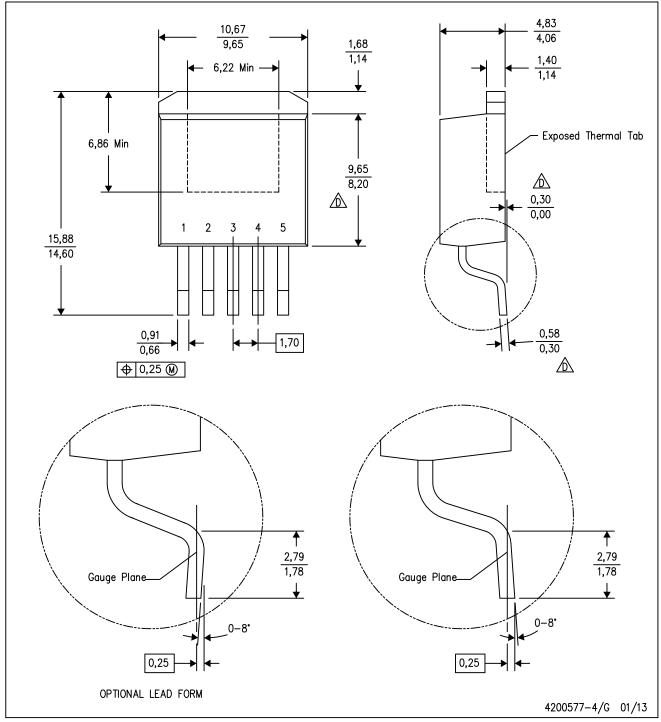


TO-220



KTT (R-PSFM-G5)

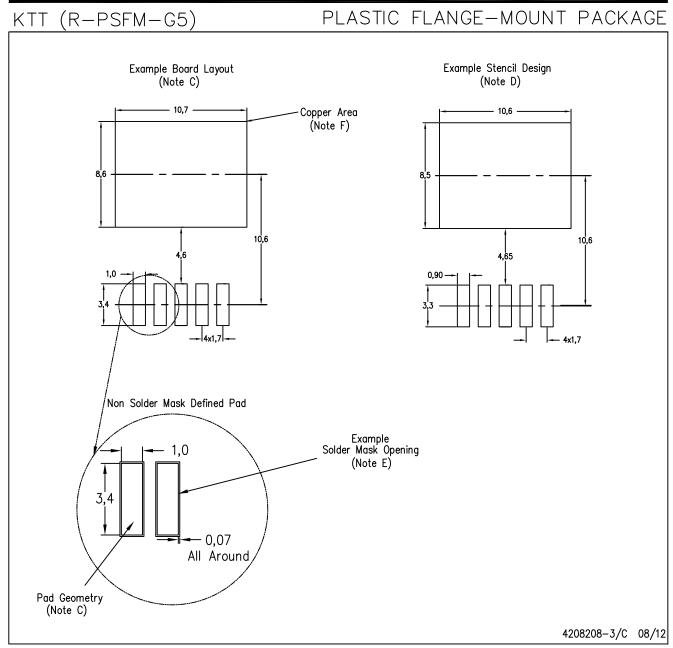
PLASTIC FLANGE-MOUNT PACKAGE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash or protrusion not to exceed 0.005 (0,13) per side.
- Falls within JEDEC T0—263 variation BA, except minimum lead thickness, maximum seating height, and minimum body length.





NOTES: A.

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-SM-782 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release.

 Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.
- F. This package is designed to be soldered to a thermal pad on the board. Refer to the Product Datasheet for specific thermal information, via requirements, and recommended thermal pad size. For thermal pad sizes larger than shown a solder mask defined pad is recommended in order to maintain the solderable pad geometry while increasing copper area.



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