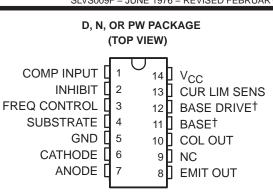
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- High Efficiency . . . 60% or Greater
- Peak Switch Current . . . 500 mA
- Input Current Limit Protection
- TTL-Compatible Inhibit
- Adjustable Output Voltage
- Input Regulation . . . 0.2% Typ
- Output Regulation . . . 0.4% Typ
- Soft Start-Up Capability
- Can be Used in Buck, Boost, and Inverting Configurations



NC - No internal connection

[†] BASE (11) and BASE DRIVE (12) are used for device testing only. They normally are not used in circuit applications of the device.

description/ordering information

The TL497A incorporates all the active functions required in the construction of switching voltage regulators. It also can be used as the control element to drive external components for high-power-output applications. The TL497A was designed for ease of use in step-up, step-down, or voltage-inversion applications requiring high efficiency.

The TL497A is a fixed-on-time variable-frequency switching-voltage-regulator control circuit. The switch-on time is programmed by a single external capacitor connected between FREQ CONTROL and GND. This capacitor, C_T , is charged by an internal constant-current generator to a predetermined threshold. The charging current and the threshold vary proportionally with V_{CC}. Thus, the switch-on time remains constant over the specified range of input voltage (4.5 V to 12 V). Typical on times for various values of C_T are as follows:

TIMING CAPACITOR, C _T (pF)	200	250	350	400	500	750	1000	1500	2000
ON TIME (µs)	19	22	26	32	44	56	80	120	180

The output voltage is controlled by an external resistor ladder network (R1 and R2 in Figures 1, 2, and 3) that provides a feedback voltage to the comparator input. This feedback voltage is compared to the reference voltage of 1.2 V (relative to SUBSTRATE) by the high-gain comparator. When the output voltage decays below the value required to maintain 1.2 V at the comparator input, the comparator enables the oscillator circuit, which charges and discharges C_T as described above. The internal pass transistor is driven on during the charging of C_T . The internal transistor can be used directly for switching currents up to 500 mA. Its collector and emitter are uncommitted, and it is current driven to allow operation from the positive supply voltage or ground. An internal Schottky diode matched to the current characteristics of the internal transistor also is available for blocking or commutating purposes. The TL497A also has on-chip current-limit circuitry that senses the peak currents in the switching regulator and protects the inductor against saturation and the pass transistor against overstress. The current limit is adjustable and is programmed by a single sense resistor, R_{CL} , connected between V_{CC} and CUR LIM SENS. The current-limit circuitry is activated when 0.7 V is developed across R_{CL} .

Simplicity of design is a primary feature of the TL497A. With only six external components (three resistors, two capacitors, and one inductor), the TL497A operates in numerous voltage-conversion applications (step-up, step-down, invert) with as much as 85% of the source power delivered to the load. The TL497A replaces the TL497 in all applications.

The TL497AC is characterized for operation from 0°C to 70°C. The TL497AI is characterized for operation from –40°C to 85°C.



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



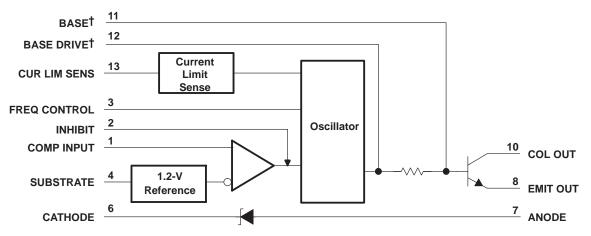
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 AVAILABLE OPTIONS									
	CHIP								
TA	SMALL-OUTLINE (D)	FORM (Y)							
0°C to 70°C	TL497ACD	TL497ACN	TL497ACPW	TL497AY					
–40°C to 85°C	TL497AID	TL497AIN	_	_					

The D and PW packages are only taped and reeled. Add the suffix R to the device type (e.g., TL497ACPWR). Chip forms are tested at 25° C.

functional block diagram



[†] BASE and BASE DRIVE are used for device testing only. They normally are not used in circuit applications of the device.



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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Supply voltage, V _{CC} (see Note 1)	
Output voltage, V _O	
Input voltage, VI(COMP INPUT)	
Input voltage, VI(INHIBIT)	
Diode reverse voltage	
Power switch current	
Diode forward current	
Package thermal impedance, θ_{JA} (see Notes 2 and 3):	D package
	N package 101°C/W
	PW package 113°C/W
Lead temperature 1,6 mm (1/16 inch) from case for 60 s	seconds 260°C
Storage temperature range, T _{stg}	

[†]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.

NOTES: 1. All voltage values, except diode voltages, are with respect to network ground terminal.

- 2. Maximum power dissipation is a function of $T_J(max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(max) T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can impact reliability.
- 3. The package thermal impedance is calculated in accordance with JESD 51, except for through-hole packages, which use a trace length of zero.

recommended operating conditions

			MIN	MAX	UNIT
Supply voltage, V _{CC}	4.5	12	V		
High-level input voltage, V _{IH}	INHIBIT pin		2.5		V
Low-level input voltage, VIL	INHIBIT pin			0.8	V
	Step-up configuration (see Figure 1)	VI + 2	30		
Output voltage	Step-down configuration (see Figure 2)	Vref	V _I – 1	V	
	Inverting regulator (see Figure 3)	-V _{ref}	-25		
Power switch current				500	mA
Diode forward current		500	mA		
Operating free air temperature read	0	70	.0°		
Operating free-air temperature rang	TL497AI	-40	85	C	



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electrical characteristics over recommended operating conditions, V_{CC} = 6 V (unless otherwise noted)

			- +		TL497AC	;		TL497AI		
PARAMETER	TEST CO	ONDITIONS	TA [†]	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT
High-level input current, INHIBIT	V _{I(I)} = 5 V		Full range		0.8	1.5		0.8	1.5	mA
Low-level input current, INHIBIT	$V_{I(I)} = 0 V$		Full range		5	10		5	20	μA
Comparator reference voltage	$V_{I} = 4.5 V to$	06 V	Full range	1.08	1.2	1.32	1.14	1.2	1.26	V
Comparator input bias current	V _I = 6 V		Full range		40	100		40	100	μA
		l _O = 100 mA	25°C		0.13	0.2		0.13	0.2	
Switch on-state voltage	VI = 4.5 V	l _O = 500 mA	Full range			0.85			1 V	
Switch off-state current			25°C		10	50		10	50	μA
	V _I = 4.5 V,	VO = 30 V	Full range			200			500	
Sense voltage, CUR LIM SENS	V _I = 6 V		25°C	0.45		1	0.45		1	V
	I _O = 10 mA		Full range		0.75	0.85		0.75	0.95	v
Diode forward voltage	I _O = 100 m/	Ą	Full range		0.9	1		0.9	1.1	
	I _O = 500 mA		Full range		1.33	1.55		1.33	1.75	
	l _O = 500 μA	L.	Full range				30			v
Diode reverse voltage	l _O = 200 μA	L Contraction of the second	Full range	30						
			25°C		11	14		11	14	
On-state supply current						15			16	mA
			25°C		6	9		6	9	mA
Off-state supply current			Full range			10			11	

[†] Full range is 0°C to 70°C for the TL497AC and -40°C to 85°C for the TL497AI.

[‡] All typical values are at $T_A = 25^{\circ}C$.

electrical characteristics over recommended operating conditions, V_{CC} = 6 V, T_A = 25°C (unless otherwise noted)

			TL497AY				
PARAMETER	TEST CONDITIONS	`	MIN	TYP	MAX	UNIT	
High-level input current, INHIBIT	V _{I(I)} = 5 V			0.8		mA	
Low-level input current, INHIBIT	$V_{I(I)} = 0 V$			5		μA	
Comparator reference voltage	VI = 4.5 V to 6 V			1.2		V	
Comparator input bias current	VI = 6 V			40		μA	
Switch on-state voltage	V _I = 4.5 V, I _O = 100	mA		0.13		V	
Switch off-state current	$V_{I} = 4.5 V, V_{O} = 30$	V		10		μA	
	I _O = 10 mA			0.75			
Diode forward voltage	I _O = 100 mA			0.9		V	
	I _O = 500 mA			1.33			
On-state supply current				11		mA	
Off-state supply current				6		mA	



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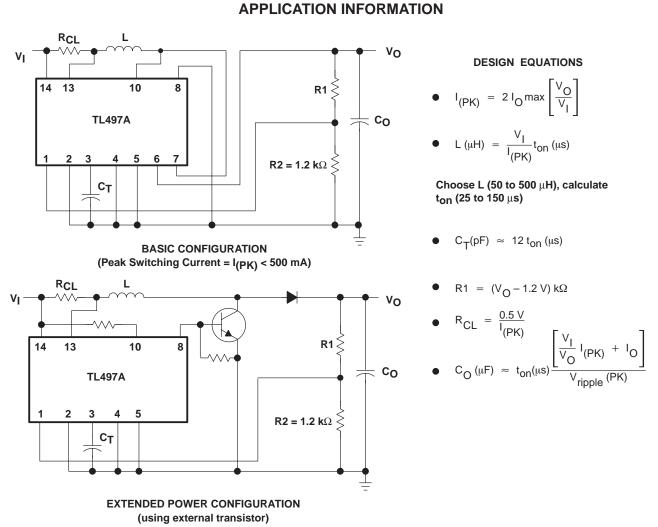


Figure 1. Positive Regulator, Step-Up Configurations



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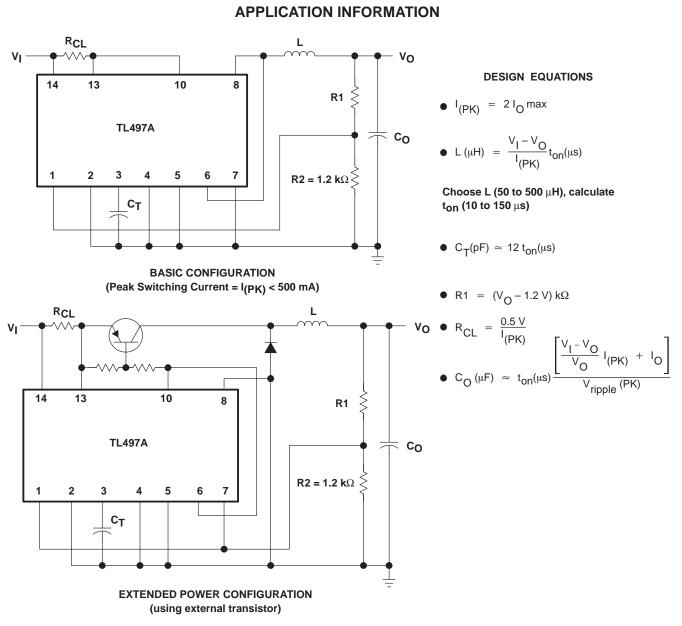
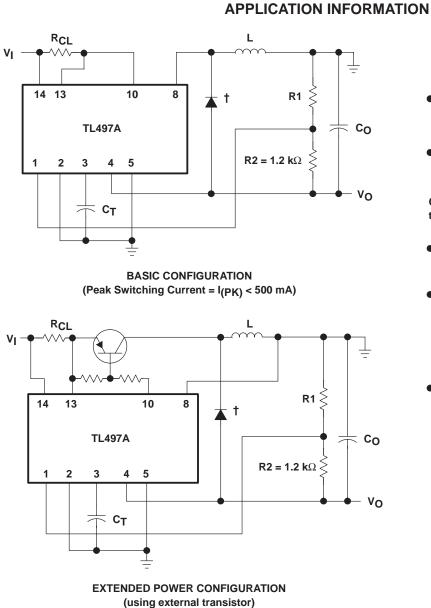


Figure 2. Positive Regulator, Step-Down Configurations



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DESIGN EQUATIONS

•
$$I_{(PK)} = 2 I_0 \max \left[1 + \frac{|V_0|}{V_1} \right]$$

•
$$L(\mu H) = \frac{V_I}{I_{(PK)}} t_{ON}(\mu s)$$

Choose L (50 to 500 $\mu\text{H}),$ calculate t_{On} (10 to 150 $\mu\text{s})$

• $C_T(pF) \approx 12 t_{on}(\mu s)$

• R1 =
$$(|V_0| - 1.2 V) k\Omega$$

$$R_{CL} = \frac{0.5 \text{ V}}{I_{(PK)}} \left[\frac{V_{I}}{|V_{O}|} I_{(PK)} + I_{O} \right]$$

• $C_{O}(\mu F) \approx t_{ON}(\mu s) \frac{V_{I}}{V_{ripple}(PK)}$

[†] Use external catch diode, e.g., 1N4001, when building an inverting supply with the TL497A.

Figure 3. Inverting Applications



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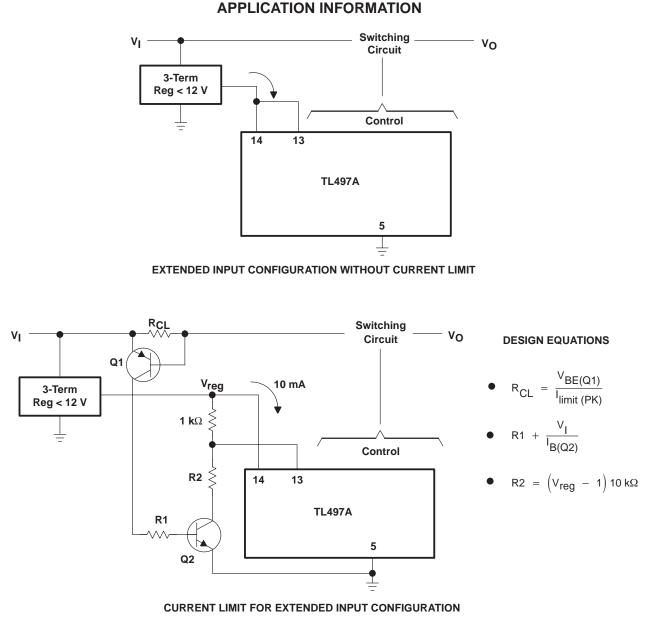


Figure 4. Extended Input Voltage Range (V_I > 12 V)





10-Jun-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
TL497ACD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	TL497AC	Samples
TL497ACDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	TL497AC	Samples
TL497ACDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	TL497AC	Samples
TL497ACDRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	TL497AC	Samples
TL497ACN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	TL497ACN	Samples
TL497ACNE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	TL497ACN	Samples
TL497ACNSLE	OBSOLETI	e so	NS	14		TBD	Call TI	Call TI			
TL497ACNSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	TL497A	Samples
TL497ACPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	T497A	Samples
TL497AID	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	TL497AI	Samples
TL497AIDG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	TL497AI	Samples
TL497AIDR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	TL497AI	Samples
TL497AIJ	OBSOLET	E CDIP	J	14		TBD	Call TI	Call TI			
TL497AIN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	TL497AIN	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.



PACKAGE OPTION ADDENDUM

10-Jun-2014

(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 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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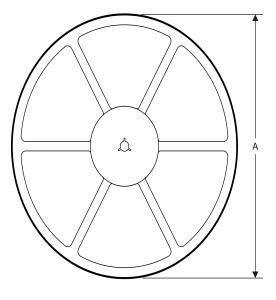
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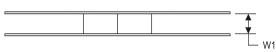
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TAPE AND REEL INFORMATION

REEL DIMENSIONS

TEXAS INSTRUMENTS





TAPE AND REEL INFORMATION

TAPE DIMENSIONS



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

*All dimensions are nominal									-	-	-	-
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
TL497ACDR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
TL497ACNSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
TL497ACPWR	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
TL497AIDR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

14-Jul-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TL497ACDR	SOIC	D	14	2500	333.2	345.9	28.6
TL497ACNSR	SO	NS	14	2000	367.0	367.0	38.0
TL497ACPWR	TSSOP	PW	14	2000	367.0	367.0	35.0
TL497AIDR	SOIC	D	14	2500	333.2	345.9	28.6

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



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

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



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

- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.





NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 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 for other stencil recommendations.
 E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



A. An integration of the information o

Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.

Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.

E. Falls within JEDEC MO-153



PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 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 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have *not* been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

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