D OR P PACKAGE (TOP VIEW)

EN REF

ss [

COMP

3

8 [] V_{CC}

TUO [

6 GND

∏ FB

- 1-W Output (V_{CC} ≥ 4.5 V)
- 2.7-V to 9-V Input Operating Range
- 78% Typical Efficiency
- 160-kHz Fixed-Frequency Current-Mode PWM Controller
- EN Input Inhibits Operation and Reduces Supply Current to 1 μA
- Output Voltage Limited to |V_O| ≤ 12 V V_{CC}
- Soft Start
- 8-Pin SOIC and DIP Packages
- −40°C to 85°C Free-Air Temperature Range
- Pin-for-Pin Compatible with MAX755

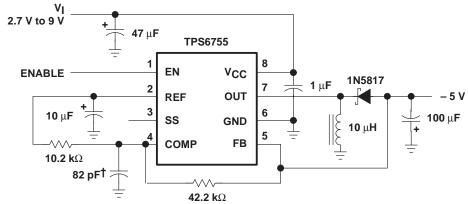
description

The TPS6755 is an adjustable inverting dc/dc converter capable of operating from inputs as low as 2.7 V. The only external components required are an inductor, an output filter capacitor, an input filter capacitor, a reference filter capacitor, two resistors, and a Schottky rectifier. An enable input is provided to shut down the inverter when an output voltage is not needed. The typical supply current is 1.9 mA at no-load and is further reduced to $1-\mu A$ when the enable input is low.

The device features a 160-kHz current-mode pulse-width-modulation (PWM) controller with a p-channel MOSFET power switch. The gate drive uses the converter output to reduce the die area needed to realize the $0.4-\Omega$ MOSFET. Soft start is accomplished with the addition of one small capacitor at SS. A 1.22-V reference is available for external loads up to 125 μ A.

The TPS6755 is attractive for board-level dc/dc conversion in computer peripherals and in battery-powered equipment requiring high efficiency and low supply current.

Available in an 8-pin DIP or an 8-pin SOIC package, the TPS6755 operates over a free-air temperature range of -40° C to 85° C.



[†]Not required for loads of 100 mA or less

Figure 1. Typical Circuit



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.

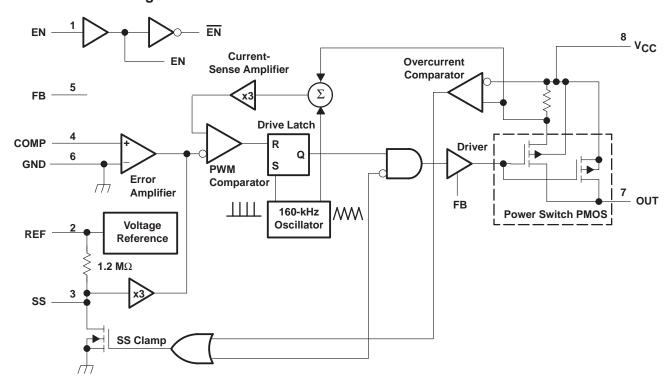


AVAILABLE OPTIONS

	PACKAGEI	DEVICES	CHIP FORM
TA	SMALL OUTLINE (D)	PLASTIC DIP (P)	(Y)
-40°C to 85°C	TPS6755ID	TPS6755IP	TPS6755Y

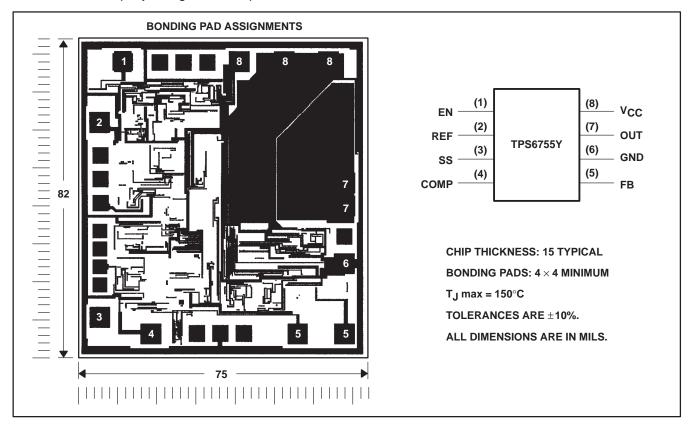
The D package is also available taped and reeled (TPS6755IDR).

functional block diagram



chip information

These chips, when properly assembled, display characteristics similar to the TPS6755. Thermal compression or ultrasonic bonding may be used on the doped aluminum bonding pads. The chips may be mounted with conductive epoxy or a gold-silicon preform.



Terminal Functions

TERMI	NAL	DESCRIPTION
NAME	NO.	DESCRIPTION
EN	1	Enable. EN > 2 V turns on the TPS6755. EN ≤ 0.4 V turns it off.
REF	2	1.22-V reference voltage output. REF can source 125 μA for external loads.
SS	3	Soft start. A capacitor between SS and GND brings the output voltage up slowly.
COMP	4	Compensation. A capacitor to ground stabilizes the feedback loop.
FB	5	Feedback. FB connects to the dc/dc converter output.
GND	6	Ground
OUT	7	Power MOSFET drain connection
VCC	8	Supply-voltage input

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detailed description

The following descriptions refer to the functional block diagram.

current-sense amplifier

The current-sense amplifier, which has a fixed gain of 3, amplifies the slope-compensated current-sense voltage (a summation of the voltage on the current-sense resistor and the oscillator ramp) and feeds it to the PWM comparator.

driver latch

The latch, which consists of a set/reset flip-flop and associated logic, controls the state of the power switch by turning the driver on and off. A high output from the latch turns the switch on; a low output turns it off. In normal operation the flip-flop is set high during the clock pulse, but gating keeps the latch output low until the clock pulse is over. The latch is reset when the PWM comparator output goes high.

enable (EN)

A logic low on EN puts the TPS6755 in shutdown mode. In shutdown, the output power switch, voltage reference, and other functions shut off and the supply current is reduced to 10 μ A maximum. The soft-start capacitor is discharged through a 1.2-M Ω resistance and the output falls to zero volts.

error amplifier

The error amplifier is a high-gain differential amplifier used to regulate the converter output voltage. The amplifier generates an error signal, which is fed to the PWM comparator, by comparing a sample of the output voltage to the reference and amplifying the difference. The output sample is obtained from a resistive divider connected between FB and REF. FB is connected externally to the converter output, and the divider output is connected to the error-amplifier input. An 82-pF capacitor connected between COMP and GND is required to stabilize the control loop for loads greater than 100 mA.

oscillator and ramp generator

The oscillator circuit provides a 160-kHz clock to set the converter operating frequency, and a timing ramp for slope compensation. The clock waveform is a pulse, a few hundred nanoseconds in duration, that is used to limit the maximum power switch duty cycle to 95%. The timing ramp is summed with the current-sense signal at the input to the current-sense amplifier.

overcurrent comparator

The overcurrent comparator monitors the current in the power switch. The comparator trips and initiates a soft-start cycle if the power-switch current exceeds 2 A peak.

power switch

The power switch is a $0.4-\Omega$ p-channel MOSFET with current sensing. The drain is connected to OUT and the source is connected to a current-sense resistor. The voltage across the resistor is proportional to current in the power switch and is tied to the overcurrent comparator and the current-sense amplifier. In normal operation, the power switch is turned on at the start of each clock cycle and turned off when the PWM comparator resets the drive latch.

PWM comparator

The comparator resets the drive latch and turns off the power switch whenever the slope-compensated current-sense signal from the current-sense amplifier exceeds the error signal.

reference

The 1.22-V reference is brought out on REF and can source 125- μ A maximum to external loads. A 10- μ F capacitor connected between REF and GND is recommended to minimize noise pickup.



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SS clamp

The SS clamp circuit limits the signal level on error-amplifier output during start-up. The voltage on SS is amplified and used to override the error-amplifier output until the error-amplifier voltage rises above that output, at which point the error amplifier takes over. This prevents the input to the PWM comparator from exceeding its common-mode range (i.e., error amplifier output too high to be reached by the current ramp) by limiting the maximum voltage on the error-amplifier output during start-up.

Soft start causes the output voltage to increase to the regulation point at the controlled rate. The voltage on the charging soft-start capacitor gradually raises the clamp on the error amplifier output voltage, limiting surge currents at power up by increasing the current limit threshold on a cycle-by-cycle basis. A soft-start cycle is initiated when either the enable (EN) signal is switched high or an overcurrent fault condition triggers the discharge of the soft-start capacitor.

DISSIPATION RATING TABLE

PACKAGE	$T_{\mbox{\scriptsize A}} \leq 25^{\circ}\mbox{\scriptsize C}$ POWER RATING	DERATING FACTOR ABOVE T _A = 25°C	T _A = 70°C POWER RATING	T _A = 85°C POWER RATING
D	725 mW	5.8 mW/°C	464 mW	377 mW
Р	1175 mW	9.4 mW/°C	752 mW	611 mW

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

Pin voltages:		0.3 V to 9 V 12.5 V
	SS, COMP, EN voltage range (see Note 1) .	0.3 V to V _{CC} +0.3 V
Peak switch of	urrent	2 A
Reference cu	rrent	2.5 mA
Continuous to	tal power dissipation	See Dissipation Rating Table
Operating free	e-air temperture range, T _A	–40°C to 85°C
Storage temp	erature range, T _{stg}	–65°C to 150°C
Lead tempera	ture 1,6mm (1/16 inch) from case for 10 s	260°C

[†] 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.

NOTE 1: All voltage values are with respect to network terminal ground.

recommended operating conditions

	MIN	NOM	MAX	UNIT
Supply voltage	2.7		9	V
Decoupling capacitor		1		μF
Input capacitor		47		μF
Reference capacitor		10		μF
Output capacitor		100		μF
Compensation capacitor		82		pF
Inductor		10		μΗ



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electrical characteristics over recommended operating free-air temperature range, $V_{CC}=5$ V, $I_O=0$, EN = 5 V, typical values are at $T_A=25^{\circ}C$ (unless otherwise noted) (refer to Figure 15)

PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Supply current			1.9		mA
Standby current	EN = 0.4 V		1	10	μΑ
High-level input threshold voltage, EN				2	V
Low-level input threshold voltage, EN		0.4			V
Input current, EN		-1		1	μΑ
Impedance, COMP			7.5		kΩ
Oscillator frequency			160		kHz
Reference voltage	I _{O(ref)} ≤ 125 μA		1.22		V
Reference drift			50		ppm/°C
On resistance, OUT			0.4		Ω
Leakage current, OUT			20		nA
Startup voltage			2.7		V

performance characteristics over recommended operating free-air temperature range, typical values at $T_A = 25$ °C (unless otherwise noted) (refer to Figure 15)

PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Output voltage	$V_{CC} = 4 \text{ V to 7 V}$ $I_{O} = 0 \text{ mA to } 200 \text{ mA}$	-4.75	– 5	-5.25	V
	V _{CC} = 2.7 V		125		
Load current	$V_{CC} = 4 V$		175		mA
	$V_{CC} = 4.5 \text{ V}$	200	270		
Line regulation	V _{CC} = 4 V		0.4%		
Load regulation	$I_O = 25 \text{ mA to } 200 \text{ mA}$		0.4%		
Efficiency	I _O =100 mA		78%		

typical system waveforms

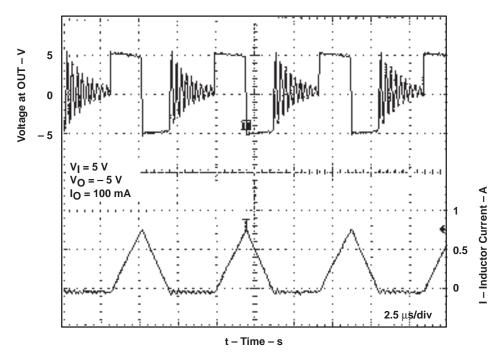


Figure 2. Switching Waveforms

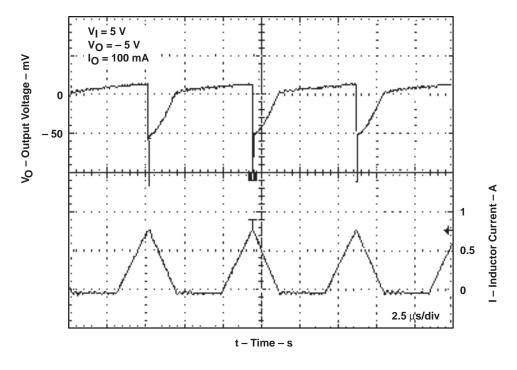


Figure 3. Output Voltage Ripple



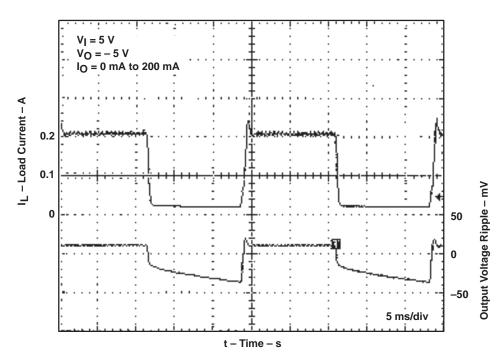


Figure 4. Load Transient Response

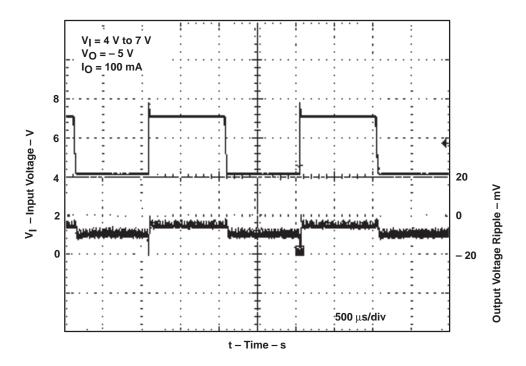


Figure 5. Line Transient Response



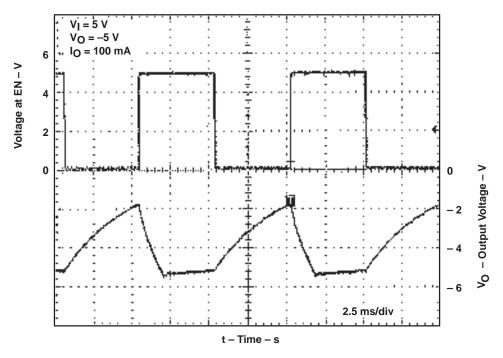
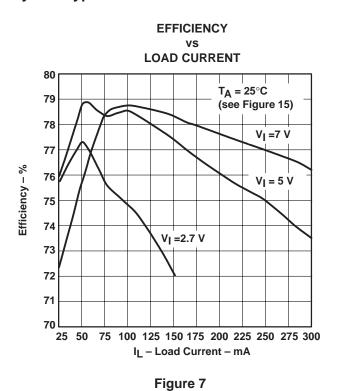


Figure 6. Enable Response Time

system typical characteristics



PEAK INDUCTOR CURRENT LOAD CURRENT 1.6 1.4 1.2 Peak Inductor Current – A 1 0.8 0.6 0.4 0.2 0 50 100 150 250 0 200 300 IL - Load Current - mA

Figure 8

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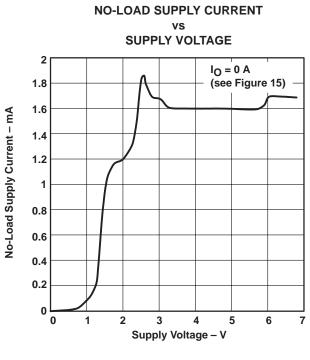


Figure 9

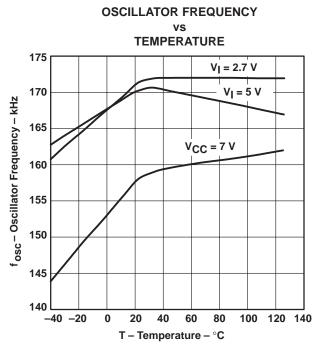


Figure 11

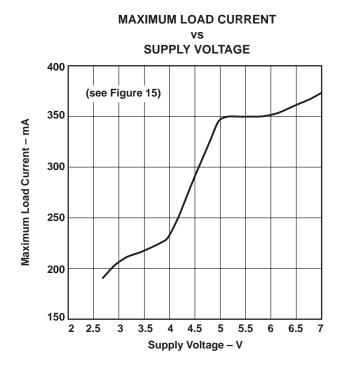


Figure 10

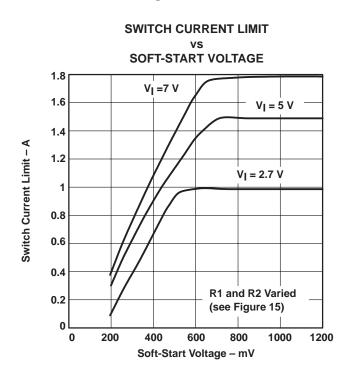
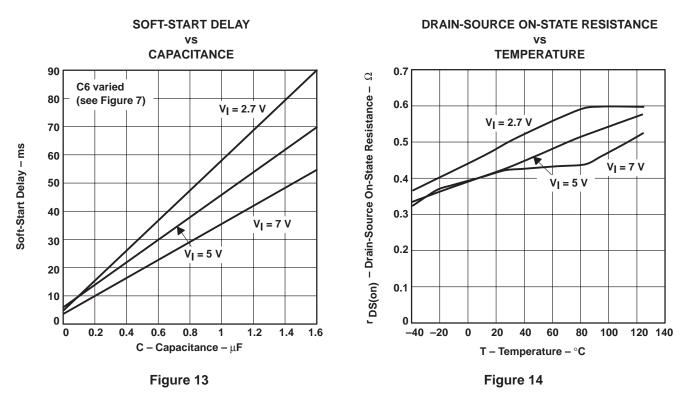


Figure 12





The TPS6755 operates in the voltage-inverting circuit, shown in Figure 15, which can generate an output. The circuit is ideal for applications that require a negative polarity voltage on the output with respect to the input ground, and for energy management systems. The TPS6755 can be placed in a shutdown mode $(1-\mu A)$ quiescent current by forcing EN low.

soft start

The soft-start capacitor provides an orderly start-up of the converter by slowly increasing the switch current limit during power-up. The soft-start timing is controlled by the SS capacitance (see Figure 13 for the capacitance value corresponding to the desired delay time). The switch current limit is proportional to the voltage applied to SS, which is internally pulled to REF by a 1.2-M Ω resistor. SS can be externally pulled lower than REF to limit the switch current. A UVLO condition or an overcurrent condition initiates an SS cycle by discharging the SS capacitor to ground through an internal transistor. A minimum of a 10-nF capacitor must be connected to SS to current limit correctly.

inductor selection

The standard 10-μH inductor required by the TPS6755 must have a saturation current greater than the peak switch current at the desired maximum load. Operation over the full voltage range and current range is assured by the 10-μH inductor. To determine the required inductor staturation level, refer to the typical operating characteristics graph for peak inductor current versus load current (see Figure 8).

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APPLICATION INFORMATION

output filter capacitor

A low equivalent series resistance (ESR) output filter capacitor is necessary to minimize the output-ripple voltage. An ESR of $100 \text{ m}\Omega$ limits the output ripple to 90 mV or less for output loads up to 200 mA.

rectifier

A Schottky diode or high-speed silicon rectifier should be used with a maximum continuous current rating of 1 A for operation up to full load.

output ripple filtering

A low-pass filter may be added to the converter output to reduce the output voltage ripple (see Figure 15). The LC filter has a cutoff frequency of 7.2 kHz. The inductor filter must have a low resistance to avoid large output voltage drops. The output voltage ripple is reduced to 5 mV when the LC output filter is used. FB must be connected to the output node before the connection for the low-pass filter.

adjustable output voltage

The output voltage of the TPS6755 is limited to $|V_O| \le 12 \, \text{V} - \text{V}_{CC}$ and is set by two external resistors, R4 and R5 (see Figure 15). R5 can be set to any value between 10 k Ω to 20 k Ω , and R4 is calculated using the following formula: R4 = $|V_O|$ R5/1.22 V. These resistors form a voltage divider between FB, COMP, and REF. The converter adjusts the output such that COMP level is at GND.

printed circuit board layout

A ground plane is recommended in a printed circuit board (PCB) layout to ensure quiet operation. Attention should be given to minimizing the lengths of the switching loops. Bypass capacitors should be placed as close to the TPS6755 as possible to prevent instability and noise pickup. V_{CC} and GND should be bypassed directly with a 1- μ F ceramic capacitor and a large bypass capacitor (e.g. 47 μ F) to maximize noise immunity. The TPS6755 should not be used with IC sockets, wire-wrap prototype boards, or other constructions that are susceptible to noise pick-up.



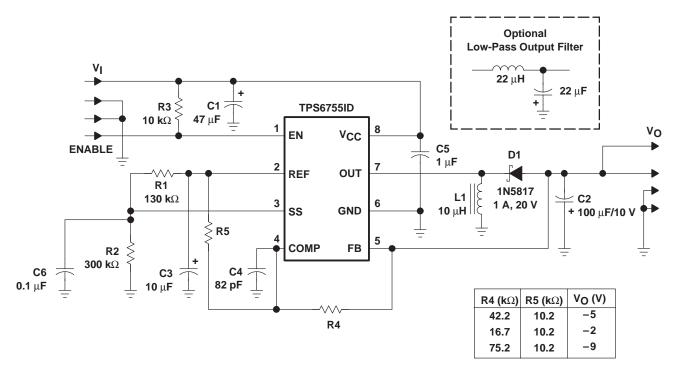


Figure 15. Application Circuit

Table 1. Bill of Materials

QTY		DESCRIPTIO	N		REF DES	MANUFACTURER PART NO.	MANUFACTURER
1	IC	Power supply			U1	TPS6755ID	Texas Instruments
1	Diode	Schottky			D1	1N5817GI	General Instrument
1	Inductor	10 μΗ			L1	DO1608C-103 CD54-100	Coilcraft, Sumida
1	Capacitor	47 μF tantalum	16 V	7343	C1	593D476X9016D2W TPSD476K016R0100	Sprague, AVX
1	Capacitor	100 μF tantalum	10 V	7343	C2	593D107X9010D2W TPSD107D016R0100	Sprague, AVX
1	Capacitor	10 μF tantalum	10 V	3528	C3	293D106X0010B2W 267E 1002 106	Sprague, MATSUO
1	Capacitor	82 pF ceramic	50 V	0805	C4		
1	Capacitor	1 μF ceramic	16 V	1206	C5		
1	Capacitor	0.1 μF ceramic	50 V	0805	C6		
1	Resistor	130 kΩ		0805	R1		
1	Resistor	300 kΩ		0805	R2		
1	Resistor	10 kΩ		0805	R3		
1	Resistor	42.2 kΩ	1%	0805	R4		
1	Resistor	10.2 kΩ	1%	0805	R5		

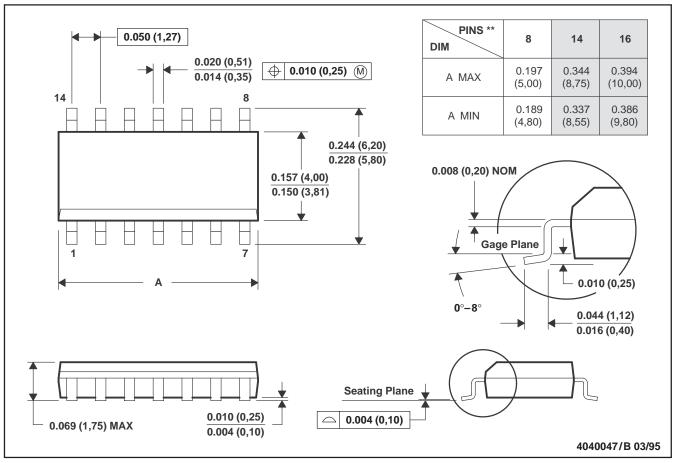
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MECHANICAL DATA

D (R-PDSO-G**)

14 PIN SHOWN

PLASTIC SMALL-OUTLINE PACKAGE

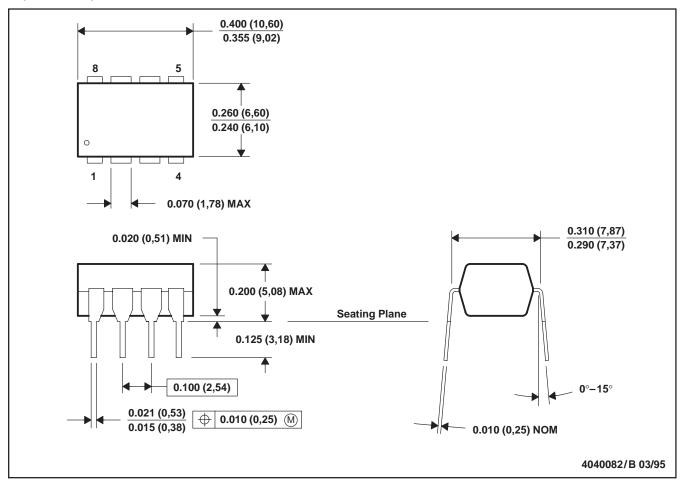


- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion, not to exceed 0.006 (0,15).
 - D. Four center pins are connected to die mount pad.
 - E. Falls within JEDEC MS-012

MECHANICAL DATA

P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



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

- B. This drawing is subject to change without notice.
- C. Falls within JEDEC MS-001





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PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TPS6755ID	NRND	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TPS6755IDG4	NRND	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TPS6755IDR	NRND	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TPS6755IDRG4	NRND	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TPS6755IP	NRND	PDIP	Р	8	50	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
TPS6755IPE4	NRND	PDIP	Р	8	50	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type

⁽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) 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.

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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)

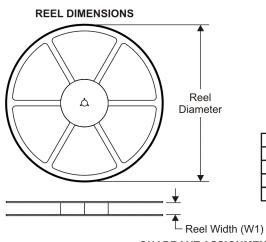
(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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TAPE AND REEL INFORMATION





_		
	A0	Dimension designed to accommodate the component width
Γ	B0	Dimension designed to accommodate the component length
		Dimension designed to accommodate the component thickness
	W	Overall width of the carrier tape
Γ	P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device		Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
TPS6755IDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1





*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TPS6755IDR	SOIC	D	8	2500	346.0	346.0	29.0

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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