- Ultrafast Operation . . . 7.6 ns (Typ)
- Low Positive Supply Current 10.6 mA (Typ)
- Operates From a Single 5-V Supply or From a Split ±5-V Supply
- Complementary Outputs
- Low Offset Voltage
- No Minimum Slew Rate Requirement
- Output Latch Capability
- Functional Replacement to the LT1016

description

The TL3016 is an ultrafast comparator designed to interface directly to TTL logic while operating from either a single 5-V power supply or dual ±5-V supplies. It features extremely tight offset voltage and high gain for precision applications. It has complementary outputs that can be latched using the LATCH ENABLE terminal. Figure 1 shows the positive supply current of this comparator. The TL3016 only requires 10.6 mA (typical) to achieve a propagation delay of 7.6 ns.

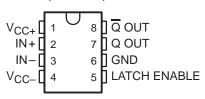
The TL3016 is a pin-for-pin functional replacement for the LT1016 comparator, offering higher speed operation but consuming half the power.

AVAILABLE OPTIONS

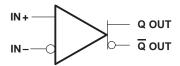
	PACKAG	CUID	
TA	SMALL OUTLINE† (D)	TSSOP (PW)	CHIP FORM [‡] (Y)
0°C to 70°C	TL3016CD	TL3016CPWLE	TL3016Y
-40°C to 85°C	TL3016ID	TL3016IPWLE	_

[†] The PW packages are available left-ended taped and reeled only. ‡ Chip forms are tested at T_A = 25°C only.

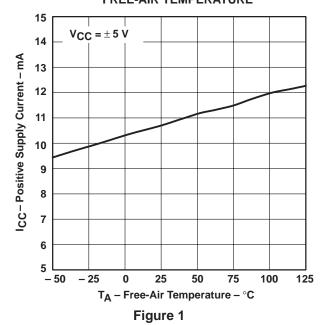
D AND PW PACKAGE (TOP VIEW)



symbol (each comparator)



POSITIVE SUPPLY CURRENT vs FREE-AIR TEMPERATURE



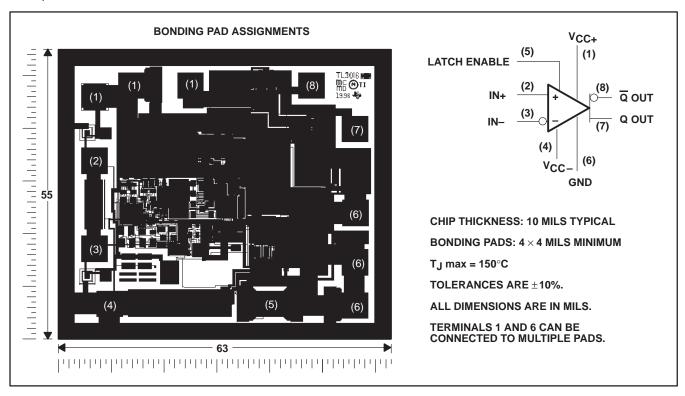


Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



TL3016Y chip information

This chip displays characteristics similar to the TL3016C. Thermal compression or ultrasonic bonding may be used on the doped-aluminum bonding pads. Chips may be mounted with conductive epoxy or a gold-silicon preform.



COMPONENT COUNT							
Bipolars	53						
MOSFETs	49						
Resistors	46						
Capacitors	14						



TL3016, TL3016Y ULTRA-FAST LOW-POWER PRECISION COMPARATORS

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

Supply voltage, V _{DD} (see Note 1)	– 7 V to 7 \
Differential input voltage, V _{ID} (see Note 2)	
Input voltage range, V ₁	
Input voltage, V _I (LATCH ENABLE)	
Output current, I _O	
Continuous total power dissipation	See Dissipation Rating Table
Operating free-air temperature range, T _A	–40°C to 85°C
Storage temperature range, T _{sta}	– 65°C to 150°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds	

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

2. Differential voltages are at IN+ with respect to IN-.

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
D	725 mW	5.8 mW/°C	464 mW
PW	525 mW	4.2 mW/°C	336 mW



[†] 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.

TL3016, TL3016Y ULTRA-FAST LOW-POWER PRECISION COMPARATORS

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electrical characteristics at specified operating free-air temperature, V_{DD} = ± 5 V, V_{LE} = 0 (unless otherwise noted)

No Input offset voltage TA = 25°C TA = full range TA = 25°C TA = full range TA = 25°C TA = full range TA = 5°C TA = full range TA	PARAMETER				TL30160	;		TL3016I		UNIT
Input offset voltage T _A = full range 3.5		PARAWETER	TEST CONDITIONS!	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNII
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V10	Input offset voltage	T _A = 25°C		0.5	3		0.5	3	m\/
Input offset voltage Input offset voltage Input offset current Input offset curren	VIO	input onset voltage	T _A = full range			3.5			3.5	IIIV
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ανιο				-4.8			-4.5		μV/°C
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	li o	Input offset current	T _A = 25°C		0.1	0.6		0.1	0.6	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	110	input onset current	T _A = full range			0.9			1.3	μΑ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	l.s	Input hige current	T _A = 25°C		6	10		6	10	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ΙΊΒ	input bias current	T _A = full range			10			10	μΑ
CMRR Common-mode rejection ratio -3.75 ≤ V _{IC} ≤ 3.5 V, T _A = 25°C 80 97 80 97 dB MSVR Supply-voltage rejection ratio Positive supply: 4.6 V ≤ +V _{DD} ≤ 5.4 V, T _A = 25°C 60 72 60 72 dB WOL Low-level output voltage I(sink) = 4 mA, T _A = 25°C Negative supply: -7 V ≤ -V _{DD} ≤ -2 V, T _A = 25°C 80 100 80 100 80 100 MV MV MV MV 4 mA, T _A = 25°C Negative supply: -7 V ≤ -V _{DD} ≤ -2 V, T _A = 25°C 80 100 80 100 80 100 MV MX MV MX	\/	Common-mode input	$V_{DD} = \pm 5 \text{ V}$	-3.75		3.5	-3.75		3.5	V
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	VICR	voltage range	V _{DD} = 5 V	1.25		3.5	1.25		3.5	v
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CMRR	•	$-3.75 \le V_{IC} \le 3.5 \text{ V}, \qquad T_A = 25^{\circ}\text{C}$	80	97		80	97		dB
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Supply-voltage rejection			72		60	72		40	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	KSVR	ratio			100		80	100		, ub
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Va	Low lovel output voltage			500	600		500	600	m\/
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	VOL	Low-level output voltage	$ \begin{aligned} &I_{\left(\text{sink}\right)} = 10 \text{ mA}, & \text{V+} \leq 4.6 \text{ V}, \\ &T_{A} = 25^{\circ}\text{C} \end{aligned} $		750			750		IIIV
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\/-··	High level output voltage		3.6	3.9		3.6	3.9		V
DD Negative supply current TA = full range -1.8 -1.3 -2.4 -1.3	VOH	nigri-iever output voitage		3.4	3.7		3.4	3.7		V
Negative supply current V		Positive supply current	T. – full range		10.6	12.5		10.6	12.5	m A
VIL (LATCH ENABLE) 0.8 0.8 V VIH High-level input voltage (LATCH ENABLE) 2 2 V Low-level input current VLE = 0 0 1 0 1	DD	Negative supply current	TA = Tull Tarige	-1.8	-1.3		-2.4	-1.3		IIIA
VIH (LATCH ENABLE) Low-level input current VLE = 0 0 1 0 1	V _{IL}					0.8			0.8	V
III "AATOM TANAN	VIH			2			2			V
[II] ((ATOU ENABLE)	1	Low-level input current	V _{LE} = 0		0	1		0	1	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	اال	(LATCH ENABLE)	V _{LE} = 2 V		24	39		24	45	μΑ

[†] Full range for the TL3016C is $T_A = 0^{\circ}$ C to 70° C. Full range for the TL3016I is $T_A = -40^{\circ}$ C to 85° C. ‡ All typical values are measures with $T_A = 25^{\circ}$ C.



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switching characteristics, V_{DD} = ± 5 V, V_{LE} = 0 (unless otherwise noted)

PARAMETER		TEST 001	TEST SOMBITIONS!			TL3016C				UNIT
	PARAMETER	TEST CON	TEST CONDITIONST MIN TYP MAX MIN		MIN	TYP MAX		UNIT		
	$\Delta V_{\parallel} = 100 \text{ mV},$	T _A = 25°C		7.8	10		7.8	10		
 			T _A = full range		7.8	11.2		7.8	12.2	20
^t pd1	Propagation delay time‡	$\Delta V_{\parallel} = 100 \text{ mV},$	T _A = 25°C		7.6	10		7.6	10	ns
		$V_{OD} = 20 \text{ mV}$	T _A = full range		7.6	11.2		7.6	12.2	
tsk(p)	Pulse skew (t _{pd+} - t _{pd-})	$\Delta V_I = 100 \text{ mV},$ $T_A = 25^{\circ}\text{C}$	$V_{OD} = 5 \text{ mV},$		0.5			0.5		ns
t _{su}	Setup time, LATCH ENABLE				2.5			2.5		ns

TYPICAL CHARACTERISTICS

Table of Graphs

			FIGURE
		vs Input voltage	2
Icc	Positive supply current	vs Frequency	3
		vs Free-air temperature	4
ICC	Negative supply current	vs Free-air temperature	5
		vs Overdrive voltage	6
	Propagation delay time	vs Supply voltage	7
tpd		vs Input impedance	8
		vs Load capacitance	9
		vs Free-air temperature	10
VIC	Common-mode input voltage	vs Free-air temperature	11
	Input threshold voltage (LATCH ENABLE)	vs Free-air temperature	12
\/-	Output valtage	vs Output source current	13
Vo	Output voltage	vs Output sink current	14
II	Input current (LATCH ENABLE)	vs Input voltage	15

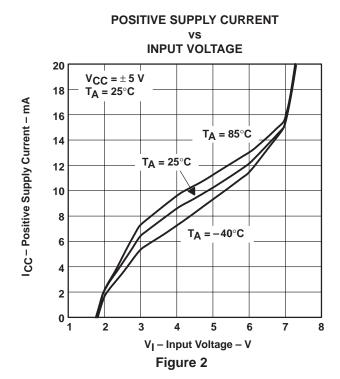


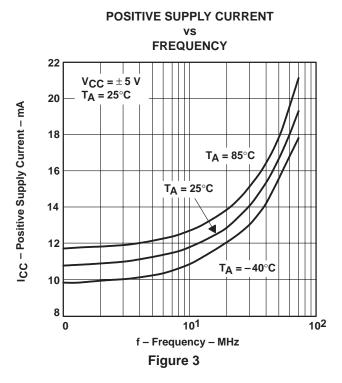
TFull range for the TL3016C is 0°C to 70°C. Full range for the TL3016I is -40° C to 85°C.

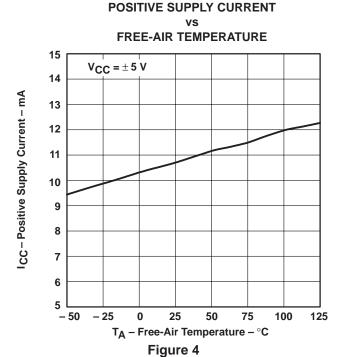
† tpd1 cannot be measured in automatic handling equipment with low values of overdrive. The TL3016 is 100% tested with a 1-V step and 500-mV overdrive at TA = 25°C only. Correlation tests have shown that tpd1 limits given can be ensured with this test, if additional dc tests are performed to ensure that all internal bias conditions are correct. For low overdrive conditions, Vos is added to the overdrive.

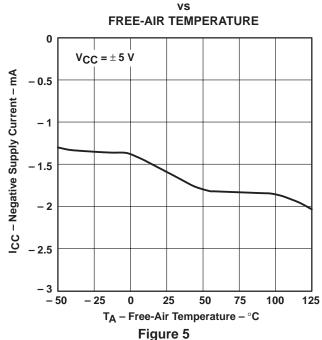
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TYPICAL CHARACTERISTICS



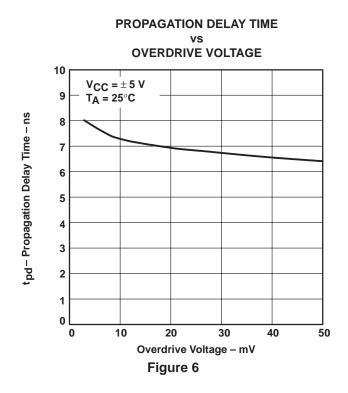


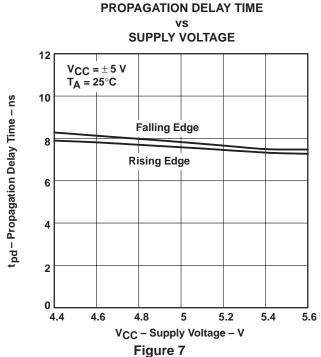


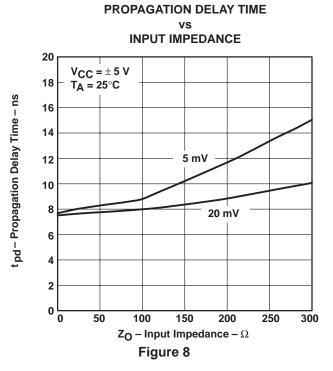


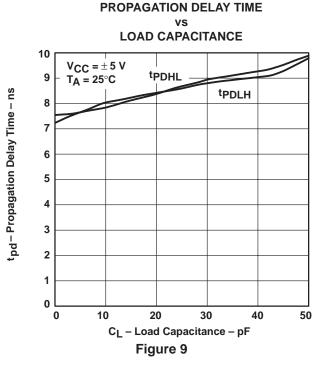
NEGATIVE SUPPLY CURRENT

TYPICAL CHARACTERISTICS

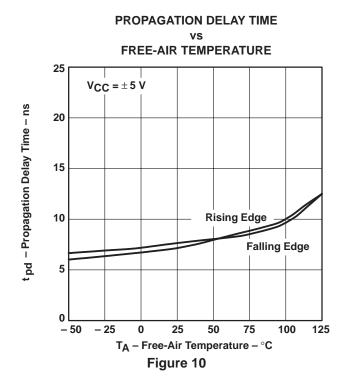


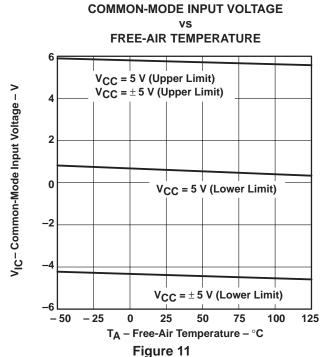






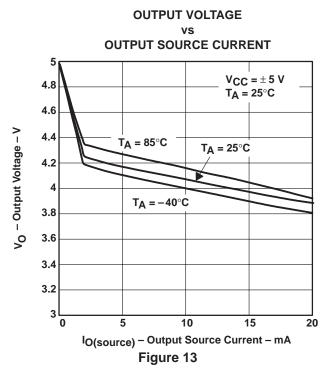
TYPICAL CHARACTERISTICS



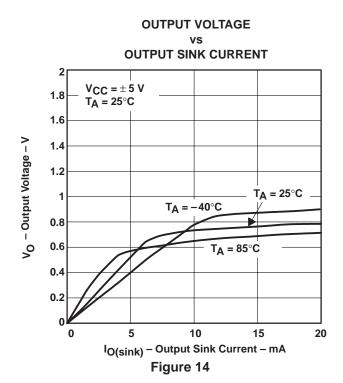


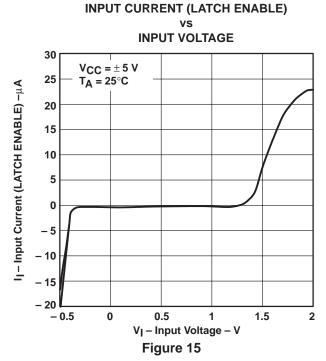
vs FREE-AIR TEMPERATURE V_{IT} – Input Threshold Voltage (LATCH ENABLE) – V $V_{CC} = \pm 5 V$ 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 0.2 -50 -25 25 50 75 100 125 TA - Free-Air Temperature - °C Figure 12

INPUT THRESHOLD VOLTAGE (LATCH ENABLE)



TYPICAL CHARACTERISTICS





PACKAGE OPTION ADDENDUM

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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⁾
TL3016CD	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CDG4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CDRG4	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CPW	ACTIVE	TSSOP	PW	8	150	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CPWG4	ACTIVE	TSSOP	PW	8	150	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CPWLE	OBSOLETE	TSSOP	PW	8		TBD	Call TI	Call TI
TL3016CPWR	ACTIVE	TSSOP	PW	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016CPWRG4	ACTIVE	TSSOP	PW	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016ID	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IDG4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IDRG4	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IPW	ACTIVE	TSSOP	PW	8	150	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IPWG4	ACTIVE	TSSOP	PW	8	150	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IPWLE	OBSOLETE	TSSOP	PW	8		TBD	Call TI	Call TI
TL3016IPWR	ACTIVE	TSSOP	PW	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TL3016IPWRG4	ACTIVE	TSSOP	PW	8	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

 $^{^{(1)}}$ 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.

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.

⁽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.



PACKAGE OPTION ADDENDUM

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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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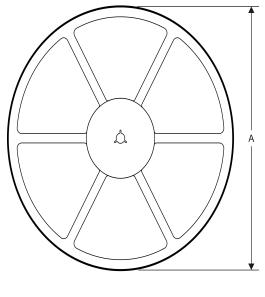
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PACKAGE MATERIALS INFORMATION

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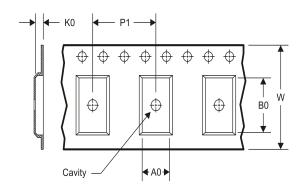
TAPE AND REEL INFORMATION

REEL DIMENSIONS





TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	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

TAPE AND REEL INFORMATION

*All dimensions are nominal

All ulmensions 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
TL3016CDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1
TL3016CPWR	TSSOP	PW	8	2000	330.0	12.4	7.0	3.6	1.6	8.0	12.0	Q1
TL3016IDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1
TL3016IPWR	TSSOP	PW	8	2000	330.0	12.4	7.0	3.6	1.6	8.0	12.0	Q1

www.ti.com 14-Jul-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TL3016CDR	SOIC	D	8	2500	367.0	367.0	35.0
TL3016CPWR	TSSOP	PW	8	2000	367.0	367.0	35.0
TL3016IDR	SOIC	D	8	2500	367.0	367.0	35.0
TL3016IPWR	TSSOP	PW	8	2000	367.0	367.0	35.0

D (R-PDSO-G8)

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 AA.



D (R-PDSO-G8)

PLASTIC SMALL OUTLINE



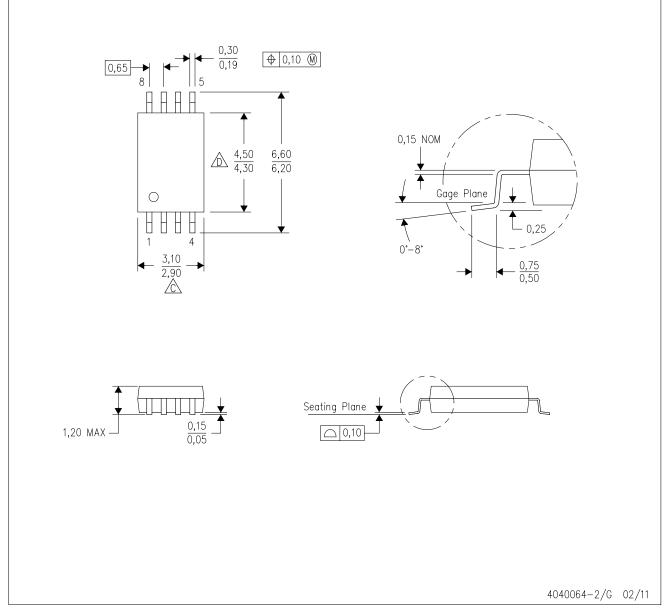
NOTES:

- 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-G8)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- 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 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



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