### AM26LS32AC, AM26LS32AI, AM26LS33AC, AM26LS32AM, AM26LS33AM QUADRUPLE DIFFERENTIAL LINE RECEIVERS

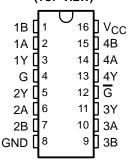
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- AM26LS32A Devices Meet or Exceed the Requirements of ANSI TIA/EIA-422-B, TIA/EIA-423-B, and ITU Recommendations V.10 and V.11
- AM26LS32A Devices Have ±7-V Common-Mode Range With ±200-mV Sensitivity
- AM26LS33A Devices Have ±15-V Common-Mode Range With ±500-mV Sensitivity
- Input Hysteresis . . . 50 mV Typical
- **Operate From a Single 5-V Supply**
- **Low-Power Schottky Circuitry**
- **3-State Outputs**
- **Complementary Output-Enable Inputs**
- Input Impedance . . . 12 k $\Omega$  Min
- Designed to Be Interchangeable With Advanced Micro Devices AM26LS32™ and AM26LS33™

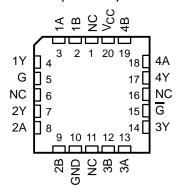
#### description

The AM26LS32A and AM26LS33A devices are quadruple differential line receivers for balanced and unbalanced digital data transmission. The enable function is common to all four receivers and offers a choice of active-high or active-low input. The 3-state outputs permit connection directly to a bus-organized system. Fail-safe design ensures that, if the inputs are open, the outputs always are high.

AM26LS32AC . . . D, N, OR NS PACKAGE AM26LS32AI, AM26LS33AC . . . D OR N PACKAGE AM26LS32AM, AM26LS33AM . . . J PACKAGE (TOP VIEW)



AM26LS32AM, AM26LS33AM . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

Compared to the AM26LS32 and the AM26LS33, the AM26LS32A and AM26LS33A incorporate an additional stage of amplification to improve sensitivity. The input impedance has been increased, resulting in less loading of the bus line. The additional stage has increased propagation delay; however, this does not affect interchangeability in most applications.

The AM26LS32AC and AM26LS33AC are characterized for operation from 0°C to 70°C. The AM26LS32AI is characterized for operation from -40°C to 85°C. The AM26LS32AM and AM26LS33AM are characterized for operation over the full military temperature range of -55°C to 125°C.



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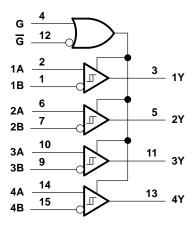
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#### **FUNCTION TABLE** (each receiver)

DIFFERENTIAL	ENAI	BLES	OUTPUT
A – B	G	G	Y
V > V	Н	Х	Н
V <sub>ID</sub> ≥ V <sub>IT+</sub>	Χ	L	Н
\/ < \/	Н	Х	?
$V_{IT-} \le V_{ID} \le V_{IT+}$	Χ	L	?
\/\- < \/\-	Н	Х	L
VID ≤ VIT-	Χ	L	L
X	L	Н	Z
Onon	Н	Х	Н
Open	Х	L	Н

H = high level, L = low level, ? = indeterminate, X = irrelevant, Z = high impedance (off)

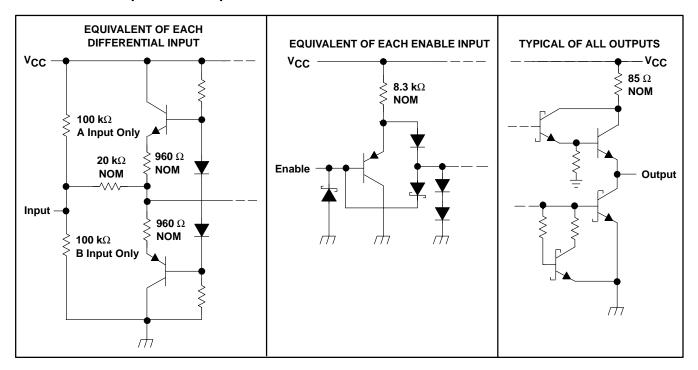
### logic diagram (positive logic)





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#### schematics of inputs and outputs



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

Supply voltage, V <sub>CC</sub> (see Note 1)	7 V
Input voltage, V <sub>I</sub> : Any differential input	
Other inputs	7 V
Differential input voltage, V <sub>ID</sub> (see Note 2)	±25 V
Continuous total power dissipation	. See Dissipation Rating Table
Package thermal impedance, θ <sub>JA</sub> (see Note 3): D package	73°C/W
N package	67°C/W
NS package	64°C/W
Case temperature for 60 seconds, T <sub>C</sub> : FK package	260°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds: D or N packa	age 260°C
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds: J package	300°C
Storage temperature range, T <sub>stq</sub>	–65°C to 150°C

<sup>†</sup> 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 differential voltages, are with respect to the network ground terminal.
  - 2. Differential voltage values are at the noninverting (A) input terminals with respect to the inverting (B) input terminals.
  - 3. The package thermal impedance is calculated in accordance with JESD 51-7.

#### **DISSIPATION RATING TABLE**

PACKAGE	$T_{\mbox{A}} \le 25^{\circ}\mbox{C}$ POWER RATING	DERATING FACTOR ABOVE T <sub>A</sub> = 25°C	T <sub>A</sub> = 70°C POWER RATING	T <sub>A</sub> = 125°C POWER RATING
FK	1375 mW	11.0 mW/°C	880 mW	275 mW
J	1375 mW	11.0 mW/°C	880 mW	275 mW



## AM26LS32AC, AM26LS32AI, AM26LS33AC, AM26LS32AM, AM26LS33AM QUADRUPLE DIFFERENTIAL LINE RECEIVERS

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#### recommended operating conditions

			MIN	NOM	MAX	UNIT
Va a Supply voltage	Supply voltage	AM26LS32AC, AM26LS32AI, AM26LS33AC		5	5.25	V
vCC	V <sub>CC</sub> Supply voltage	AM26LS32AM, AM26LS33AM	4.5	5	5.5	٧
VIH	High-level input voltage		2			V
V <sub>IL</sub>	Low-level input voltage				0.8	V
V <sub>IC</sub> Common-mode inpu	Common mode input voltage	AM26LS32A			±7	V
	AM26LS33A				±15	v
loh	High-level output current				-440	μΑ
loL	Low-level output current				8	mA
T <sub>A</sub> Operati		AM26LS32AC, AM26LS33AC	0		70	
	Operating free-air temperature	AM26LS32AI	-40		85	°C
		AM26LS32AM, AM26LS33AM	-55		125	

# electrical characteristics over recommended ranges of $V_{\hbox{\footnotesize{CC}}},\ V_{\hbox{\footnotesize{IC}}},$ and operating free-air temperature (unless otherwise noted)

	PARAMETER	TEST CONDITIONS			TYP†	MAX	UNIT
V <sub>IT+</sub>	Positive-going	V <sub>O</sub> = V <sub>OH</sub> min, I <sub>OH</sub> = -440 μA	AM26LS32A			0.2	V
	input threshhold voltage	0 011 7 011	AM26LS33A			0.5	
VIT-	Negative-going	V <sub>O</sub> = 0.45 V, I <sub>OL</sub> = 8 mA	AM26LS32A	-0.2‡	-0.2‡		V
VII-	input threshhold voltage	VO = 0.43 V, IOL = 0 IIIA	AM26LS33A	-0.5‡			V
V <sub>hys</sub>	Hysteresis voltage $(V_{IT+} - V_{IT-})$				50		mV
VIK	Enable-input clamp voltage	V <sub>CC</sub> = MIN,	I <sub>I</sub> = -18 mA			-1.5	V
Varia	High level entropy with a	VCC =MIN, VID = 1 V,	AM26LS32AC AM26LS33AC	2.7			V
VOH High-level o	High-level output voltage	$V_{I(G)} = 0.8 \text{ V}, I_{OH} = -440 \mu\text{A}$	AM26LS32AM, AM26LS32AI, AM26LS33AM	2.5			V
V/01	M. Lava laval autout valta va	$V_{CC} = MIN, V_{ID} = -1 V,$	I <sub>OL</sub> = 4 mA			0.4	V
VOL	Low-level output voltage	$V_{I(G)} = 0.8 \text{ V}$	$I_{OL} = 8 \text{ mA}$			0.45	
	Off-state	V MAY	V <sub>O</sub> = 2.4 V			20	
loz	(high-impedance state) output current	VCC = MAX	V <sub>O</sub> = 0.4 V			-20	μΑ
١.	Line input current	$V_{I} = 15 V$ ,	Other input at -10 V to 15 V			1.2	mΑ
11	Line input current	$V_I = -15 \text{ V}$ , Other input at $-15 \text{ V}$ to $10 \text{ V}$				-1.7	l IIIA
I <sub>I</sub> (EN)	Enable input current	V <sub>I</sub> = 5.5 V				100	μΑ
lіН	High-level enable current	V <sub>I</sub> = 2.7 V				20	μΑ
IĮ∟	Low-level enable current	V <sub>I</sub> = 0.4 V				-0.36	mA
rĮ	Input resistance	$V_{IC} = -15 \text{ V to } 15 \text{ V},$	One input to ac ground	12	15		kΩ
los	Short-circuit output current§	V <sub>CC</sub> = MAX		-15		-85	mA
ICC	Supply current	$V_{CC} = MAX$ ,	All outputs disabled		52	70	mA

<sup>†</sup> All typical values are at  $V_{CC} = 5 \text{ V}$ ,  $T_A = 25^{\circ}\text{C}$ , and  $V_{IC} = 0$ .



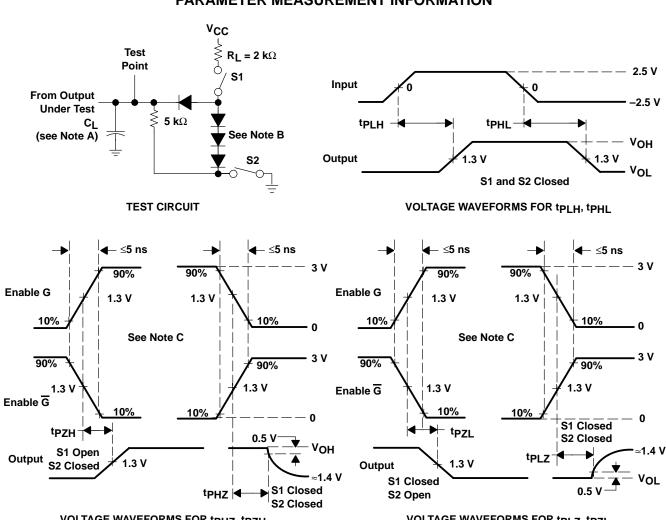
<sup>‡</sup> The algebraic convention, in which the less positive (more negative) limit is designated as minimum, is used in this data sheet for threshold levels

<sup>§</sup> Not more than one output should be shorted to ground at a time, and duration of the short circuit should not exceed one second.

## switching characteristics, $V_{CC} = 5 \text{ V}$ , $T_A = 25^{\circ}\text{C}$

	PARAMETER	TEST CO	MIN	TYP	MAX	UNIT	
tPLH	Propagation delay time, low-to-high-level output	$C_1 = 15 pF$	See Figure 1		20	35	ns
tPHL	Propagation delay time, high-to-low-level output	CL = 15 pr,	See Figure 1		22	35	115
<sup>t</sup> PZH	Output enable time to high level	$C_1 = 15 pF$	See Figure 1		17	22	ns
tpzL	Output enable time to low level	C[ = 15 pr,	See Figure 1		20	25	115
tPHZ	Output disable time from high level	C 5 nE	See Figure 1		21	30	20
t <sub>PLZ</sub>	Output disable time from low level	$C_L = 5 pF$ ,	See Figure 1		30	40	ns

#### PARAMETER MEASUREMENT INFORMATION



VOLTAGE WAVEFORMS FOR tPHZ, tPZH

VOLTAGE WAVEFORMS FOR tplz, tpzL

NOTES: A. C<sub>I</sub> includes probe and jig capacitance. B. All diodes are 1N3064 or equivalent.

C. Enable G is tested with  $\overline{G}$  high;  $\overline{G}$  is tested with G low.

Figure 1

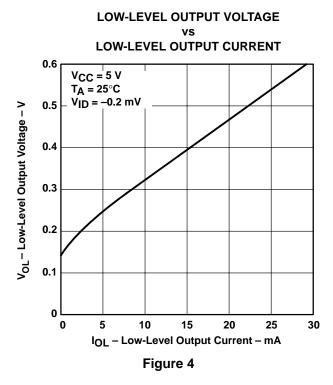


#### TYPICAL CHARACTERISTICS

## **HIGH-LEVEL OUTPUT VOLTAGE** HIGH-LEVEL OUTPUT CURRENT<sup>†</sup> 5 $V_{ID} = 0.2 V$ T<sub>A</sub> = 25°C V<sub>OH</sub> – High-Level Output Voltage – V V<sub>CC</sub> = 5.25 V $V_{CC} = 5 V$ 2 V<sub>CC</sub> = 5.5 V V<sub>CC</sub> = 4.75 V V<sub>CC</sub> = 4.5 V 0 -20 -30 -50 IOH - High-Level Output Current - mA

 $^\dagger$  VCC = 5.5 V and VCC = 4.5 V applies to M-suffix devices only.

#### Figure 2

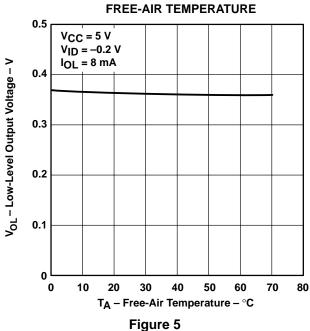


### HIGH-LEVEL OUTPUT VOLTAGE vs FREE-AIR TEMPERATURE **V<sub>CC</sub>** = 5 **V** $V_{ID} = 0.2 \text{ mV}$ $I_{OH}$ = -440 $\mu$ A V<sub>OH</sub> - High-Level Output Voltage - V 3 2 0 o 10 20 30 40 50 60 70 80

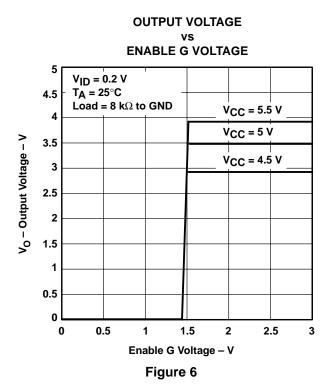
Figure 3

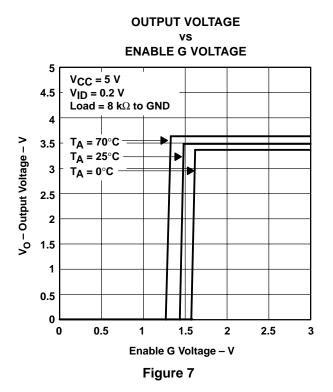
T<sub>A</sub> - Free-Air Temperature - °C

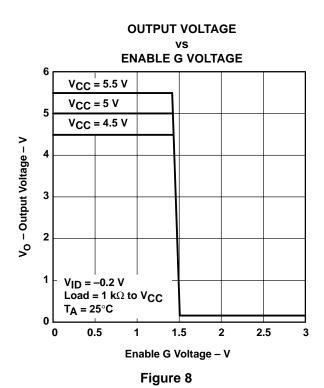
# LOW-LEVEL OUTPUT VOLTAGE vs

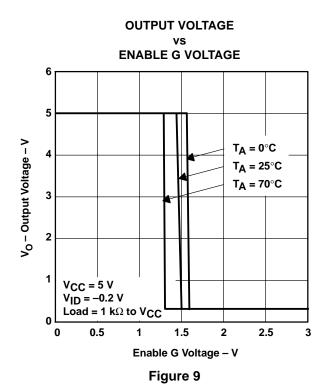


#### TYPICAL CHARACTERISTICS



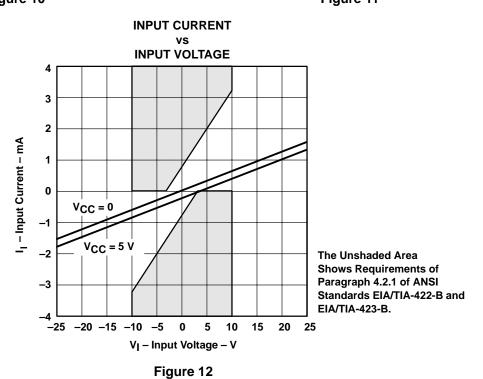






#### TYPICAL CHARACTERISTICS

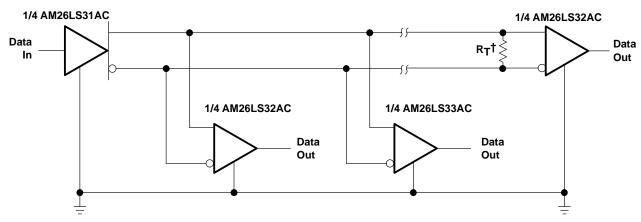
#### AM26LS33A AM26LS32A **OUTPUT VOLTAGE OUTPUT VOLTAGE DIFFERENTIAL INPUT VOLTAGE DIFFERENTIAL INPUT VOLTAGE V<sub>CC</sub>** = 5 **V** $V_{CC} = 5 \text{ V, I}_{O} = 0, T_{A} = 25^{\circ}\text{C}$ $I_0 = 0$ 4.5 4.5 T<sub>A</sub> = 25°C 4 4 V<sub>O</sub> – Output Voltage – V V<sub>O</sub> - Output Voltage - V V<sub>IC</sub> = 15 V <sup>V</sup>IС 7 V V<sub>IC</sub> = -15 V V<sub>IC</sub> VIC: V<sub>IC</sub> = -7 V 3.5 3.5 3 3 2.5 2.5 ۷<sub>IT</sub>\_ ۷<sub>IT</sub>\_ V<sub>IT</sub>\_ VIT-VIT V<sub>IT</sub>-2 2 VIT+ V<sub>IT+</sub> $V_{IT+}$ V<sub>IT+</sub> V<sub>IT+</sub> ۷<sub>IT+</sub> 1.5 1.5 1 1 0.5 0.5 150 -200 -150 -100 -50 0 100 200 -200 -150 -100 -50 100 50 0 50 150 200 V<sub>ID</sub> - Differential Input Voltage - mV V<sub>ID</sub> - Differential Input Voltage - mV Figure 10 Figure 11





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#### **APPLICATION INFORMATION**



 $<sup>\</sup>dagger$  RT equals the characteristic impedance of the line.

Figure 13. Circuit With Multiple Receivers









#### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/Ball Finish	n MSL Peak Temp <sup>(3)</sup>
5962-7802003M2A	ACTIVE	LCCC	FK	20	1	None	POST-PLATE	Level-NC-NC-NC
5962-7802003MEA	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
5962-7802003MFA	ACTIVE	CFP	W	16	1	None	A42 SNPB	Level-NC-NC-NC
5962-7802004M2A	ACTIVE	LCCC	FK	20	1	None	POST-PLATE	Level-NC-NC-NC
5962-7802004MEA	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
5962-7802004MFA	ACTIVE	CFP	W	16	1	None	A42 SNPB	Level-NC-NC-NC
78020032A	OBSOLETE	LCCC	FK	20		None	Call TI	Call TI
7802003FA	OBSOLETE	CFP	W	16		None	Call TI	Call TI
AM26LS32ACD	ACTIVE	SOIC	D	16	40	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS32ACDR	ACTIVE	SOIC	D	16	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS32ACN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
AM26LS32ACNSR	ACTIVE	SO	NS	16	2000	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS32AID	ACTIVE	SOIC	D	16	40	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS32AIDR	ACTIVE	SOIC	D	16	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS32AIN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
AM26LS32AMFKB	ACTIVE	LCCC	FK	20	1	None	POST-PLATE	Level-NC-NC-NC
AM26LS32AMJ	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
AM26LS32AMJB	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
AM26LS32AMWB	ACTIVE	CFP	W	16	1	None	A42 SNPB	Level-NC-NC-NC
AM26LS33ACD	ACTIVE	SOIC	D	16	40	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS33ACDR	ACTIVE	SOIC	D	16	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR Level-1-235C-UNLIM
AM26LS33ACN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
AM26LS33AMFKB	ACTIVE	LCCC	FK	20	1	None	POST-PLATE	Level-NC-NC-NC
AM26LS33AMJ	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
AM26LS33AMJB	ACTIVE	CDIP	J	16	1	None	A42 SNPB	Level-NC-NC-NC
AM26LS33AMWB	ACTIVE	CFP	W	16	1	None	A42 SNPB	Level-NC-NC-NC

(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.

None: Not yet available Lead (Pb-Free).

<sup>(2)</sup> Eco Plan - May not be currently available - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.



#### PACKAGE OPTION ADDENDUM

18-Feb-2005

**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.

Green (RoHS & no Sb/Br): TI defines "Green" to mean "Pb-Free" and in addition, uses package materials that do not contain halogens, including bromine (Br) or antimony (Sb) above 0.1% of total product weight.

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

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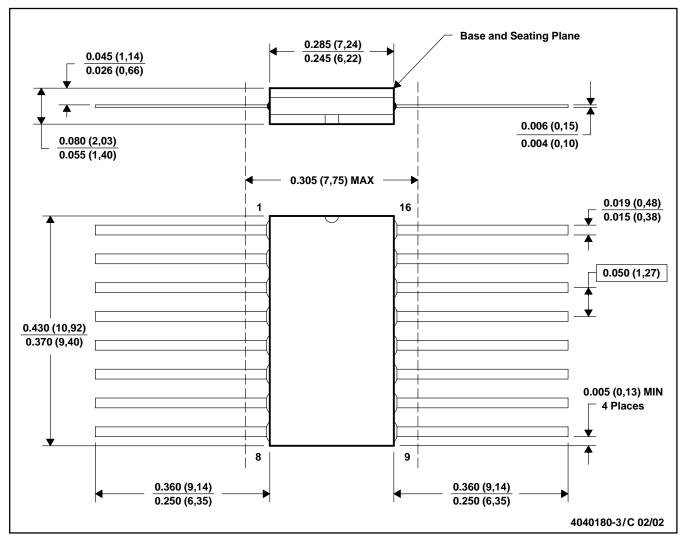
## 14 LEADS SHOWN



- 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.

#### W (R-GDFP-F16)

#### **CERAMIC DUAL FLATPACK**



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

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP-1F16 and JEDEC MO-092AC

#### FK (S-CQCC-N\*\*)

#### **28 TERMINAL SHOWN**

#### **LEADLESS CERAMIC CHIP CARRIER**



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

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



## N (R-PDIP-T\*\*)

## PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

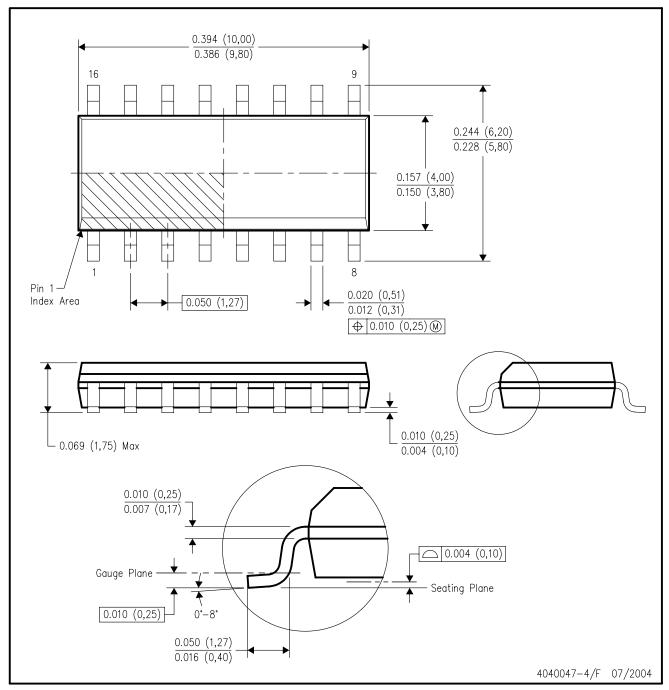


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



## D (R-PDSO-G16)

## PLASTIC SMALL-OUTLINE PACKAGE



- 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. Falls within JEDEC MS-012 variation AC.



#### **MECHANICAL DATA**

## NS (R-PDSO-G\*\*)

## 14-PINS SHOWN

#### PLASTIC SMALL-OUTLINE PACKAGE



- 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, not to exceed 0,15.



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