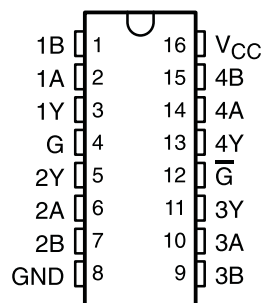


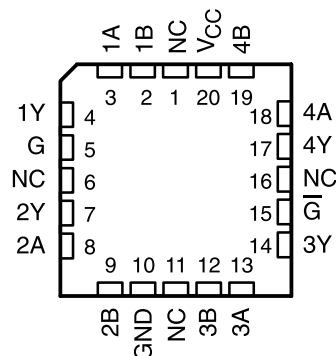
FEATURES

- **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 Ω Minimum**
- **Designed to Be Interchangeable With Advanced Micro Devices AM26LS32™ and AM26LS33™**

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



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



NC – No internal connection

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.

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.



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.

AM26LS32, AM26LS33 are trademarks of Advanced Micro Devices, Inc..

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

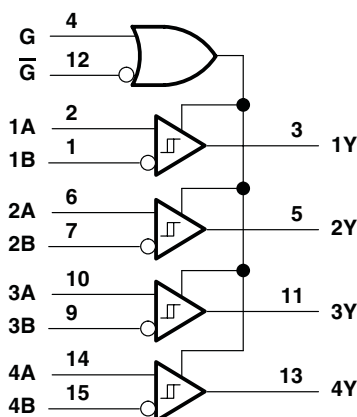
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FUNCTION TABLE
Each Receiver

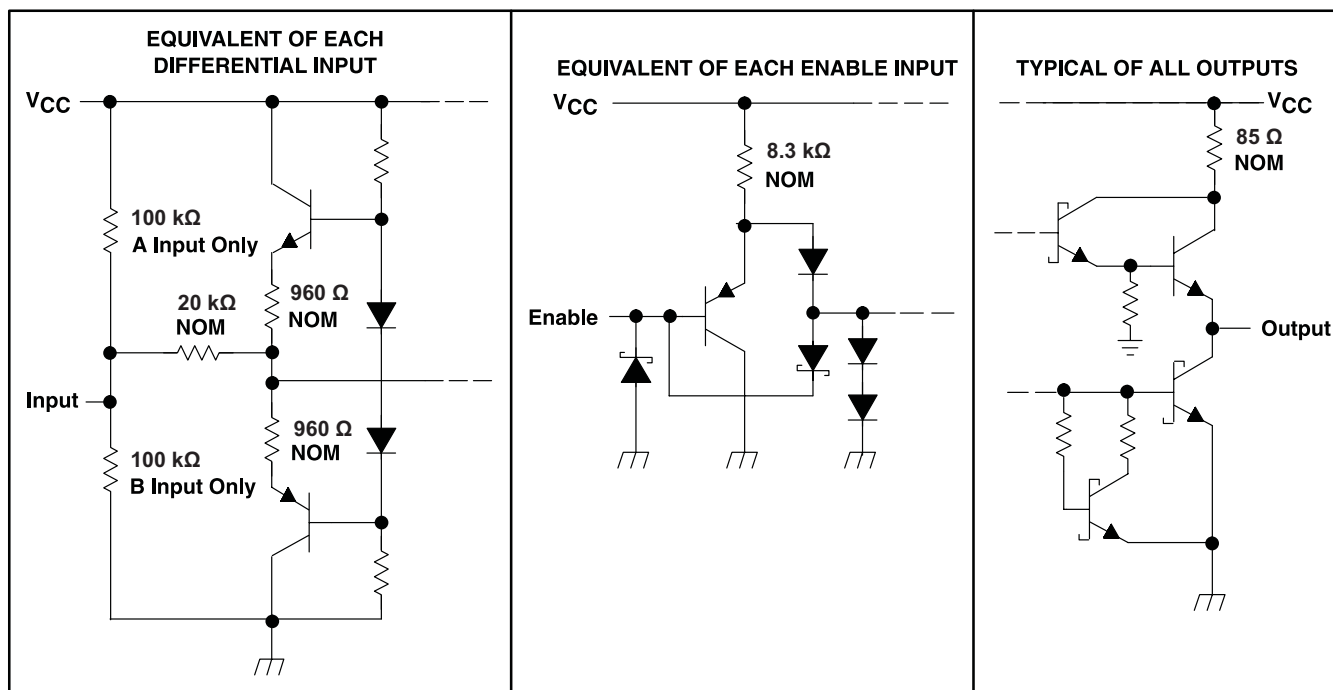
| DIFFERENTIAL A–B | ENABLES | | OUTPUT Y |
|------------------------------------|---------|----------------|-------------|
| | G | \overline{G} | |
| $V_{ID} \geq V_{IT+}$ | H | X | H |
| | X | L | H |
| $V_{IT-} \leq V_{ID} \leq V_{IT+}$ | H | X | ? |
| | X | L | ? |
| $V_{ID} \leq V_{IT-}$ | H | X | L |
| | X | L | L |
| X | L | H | Z |
| Open | H | X | H |
| | X | L | H |

LOGIC DIAGRAM (POSITIVE LOGIC)



Pin numbers are for D, N, NS, or PW packages only.

SCHEMATICS OF INPUTS AND OUTPUTS



ABSOLUTE MAXIMUM RATINGS⁽¹⁾

over operating free-air temperature range (unless otherwise noted)

| | | MIN | MAX | UNIT |
|------------------|--|-------------------------------|-----|------|
| V _{CC} | Supply voltage ⁽²⁾ | | 7 | V |
| V _I | Input voltage | Any differential input | ±25 | V |
| | | Other inputs | 7 | V |
| V _{ID} | Differential input voltage ⁽³⁾ | | ±25 | V |
| | Continuous total power dissipation | See Dissipation Ratings Table | | |
| θ _{JA} | Package thermal impedance ⁽⁴⁾ | D package | 73 | °C/W |
| | | N package | 67 | |
| | | NS package | 64 | |
| | | PW package | 108 | |
| T _C | Case temperature for 60 seconds | FK package | 260 | °C |
| | Lead temperature 1.6 mm (1/16 inch) from case for 10 seconds | D or N package | 260 | °C |
| | Lead temperature 1.6 mm (1/16 inch) from case for 60 seconds | J package | 300 | °C |
| T _{stg} | Storage temperature range | –65 | 150 | °C |

- (1) 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.
- (2) All voltage values, except differential voltages, are with respect to the network ground terminal.
- (3) Differential voltage values are at the noninverting (A) input terminals with respect to the inverting (B) input terminals.
- (4) The package thermal impedance is calculated in accordance with JESD 51-7.

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

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DISSIPATION RATINGS

| PACKAGE | $T_A \leq 25^\circ\text{C}$ POWER RATING | DERATION FACTOR ABOVE $T_A = 25^\circ\text{C}$ | $T_A = 70^\circ\text{C}$ POWER RATING | $T_A = 125^\circ\text{C}$ POWER RATING |
|---------|---|--|--|---|
| FK | 1375 mW | 11.0 mW/ $^\circ\text{C}$ | 880 mW | 275 mW |
| J | 1375 mW | 11.0 mW/ $^\circ\text{C}$ | 880 mW | 275 mW |

RECOMMENDED OPERATING CONDITIONS

| | | | MIN | NOM | MAX | UNIT |
|----------|--------------------------------|---------------------------------------|------|-----|----------|------------------|
| V_{CC} | Supply voltage | AM26LS32AC, AM26LS32AI, AM26LS33AC | 4.75 | 5 | 5.25 | V |
| | | AM26LS32AM, AM26LS33AM | 4.5 | 5 | 5.5 | |
| V_{IH} | High-level input voltage | | 2 | | | V |
| V_{IL} | Low-level input voltage | | | | 0.8 | V |
| V_{IC} | Common-mode input voltage | AM26LS32A | | | ± 7 | V |
| | | AM26LS33A | | | ± 15 | |
| I_{OH} | High-level output current | | | | -440 | μA |
| I_{OL} | Low-level output current | | | | 8 | mA |
| T_A | Operating free-air temperature | AM26LS32AC, AM26LS33AC | 0 | | 70 | $^\circ\text{C}$ |
| | | AM26LS32AI | -40 | | 85 | |
| | | AM26LS32AM, AM26LS33AM | -55 | | 125 | |

ELECTRICAL CHARACTERISTICS

over recommended ranges of V_{CC} , V_{IC} , and operating free-air temperature (unless otherwise noted)

| PARAMETER | TEST CONDITIONS | MIN | TYP ⁽¹⁾ | MAX | UNIT |
|-------------|---|--|--------------------|---------------------|---------------|
| V_{IT+} | Positive-going input threshold voltage $V_O = V_{OHmin}$, $I_{OH} = -440 \mu\text{A}$ | AM26LS32A | | 0.2 | V |
| | | AM26LS33A | | 0.5 | |
| V_{IT-} | Negative-going input threshold voltage $V_O = 0.45 \text{ V}$, $I_{OL} = 8 \text{ mA}$ | AM26LS32A | | -0.2 ⁽²⁾ | V |
| | | AM26LS33A | | -0.5 ⁽²⁾ | |
| V_{hys} | Hysteresis voltage ($V_{IT+} - V_{IT-}$) | | 50 | | mV |
| V_{IK} | Enable-input clamp voltage $V_{CC} = \text{MIN}$, $I_I = -18 \text{ mA}$ | | | -1.5 | V |
| V_{OH} | High-level output voltage $V_{CC} = \text{MIN}$, $V_{ID} = 1 \text{ V}$, $V_{I(G)} = 0.8 \text{ V}$, $I_{OH} = -440 \mu\text{A}$ | AM26LS32AC, AM26LS33AC | 2.7 | | V |
| | | AM26LS32AM, AM26LS32AI, AM26LS33AM | 2.5 | | |
| V_{OL} | Low-level output voltage $V_{CC} = \text{MIN}$, $V_{ID} = -1 \text{ V}$, $V_{I(G)} = 0.8 \text{ V}$ | $I_{OL} = 4 \text{ mA}$ | | 0.4 | V |
| | | $I_{OL} = 8 \text{ mA}$ | | 0.45 | |
| I_{OZ} | Off-state (high-impedance state) output current $V_{CC} = \text{MAX}$ | $V_O = 2.4 \text{ V}$ | | 20 | μA |
| | | $V_O = 0.4 \text{ V}$ | | -20 | |
| I_I | Line input current $V_I = 15 \text{ V}$, $V_I = -15 \text{ V}$, | Other input at -10 V to 15 V | | 1.2 | mA |
| | | Other input at -15 V to 10 V | | -1.7 | |
| $I_{I(EN)}$ | Enable input current $V_I = 5.5 \text{ V}$ | | | 100 | μA |
| I_H | High-level enable current $V_I = 2.7 \text{ V}$ | | | 20 | μA |

(1) All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^\circ\text{C}$, and $V_{IC} = 0$.

(2) The algebraic convention, in which the less positive (more negative) limit is designated as minimum, is used in this data sheet for threshold levels only.

ELECTRICAL CHARACTERISTICS (continued)

over recommended ranges of V_{CC} , V_{IC} , and operating free-air temperature (unless otherwise noted)

| PARAMETER | | TEST CONDITIONS | MIN | TYP ⁽¹⁾ | MAX | UNIT |
|-----------|---|--|-----|--------------------|-------|------------|
| I_L | Low-level enable current | $V_I = 0.4\text{ V}$ | | | –0.36 | mA |
| r_i | Input resistance | $V_{IC} = -15\text{ V to }15\text{ V}$, One input to ac ground | 12 | 15 | | k Ω |
| I_{OS} | Short-circuit output current ⁽³⁾ | $V_{CC} = \text{MAX}$ | –15 | | –85 | mA |
| I_{CC} | Supply current | $V_{CC} = \text{MAX}$, All outputs disabled | | 52 | 70 | mA |

(3) 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 CONDITIONS | MIN | TYP ⁽¹⁾ | MAX | UNIT |
|-----------|--|--|-----|--------------------|-----|------|
| t_{PLH} | Propagation delay time, low-to-high-level output | $C_L = 15\text{ pF}$, See Figure 1 | | 20 | 35 | ns |
| t_{PHL} | Propagation delay time, high-to-low-level output | | | 22 | 35 | |
| t_{PZH} | Output enable time to high level | $C_L = 15\text{ pF}$, See Figure 1 | | 17 | 22 | ns |
| t_{PZL} | Output enable time to low level | | | 20 | 25 | |
| t_{PHZ} | Output disable time from high level | $C_L = 15\text{ pF}$, See Figure 1 | | 21 | 30 | ns |
| t_{PLZ} | Output disable time from low level | | | 30 | 40 | |

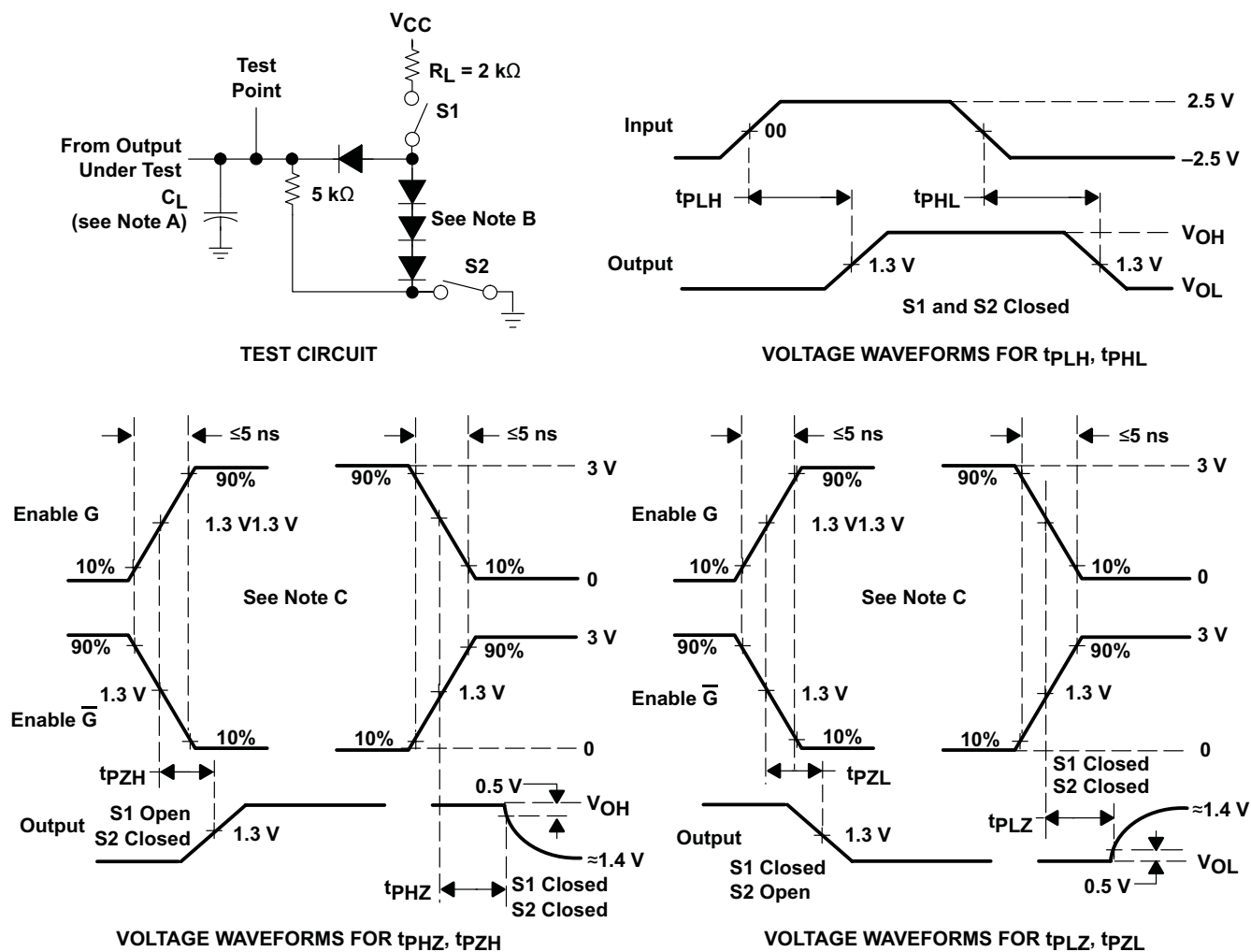
(1) All typical values are at $V_{CC} = 5\text{ V}$, $T_A = 25^\circ\text{C}$, and $V_{IC} = 0$.

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

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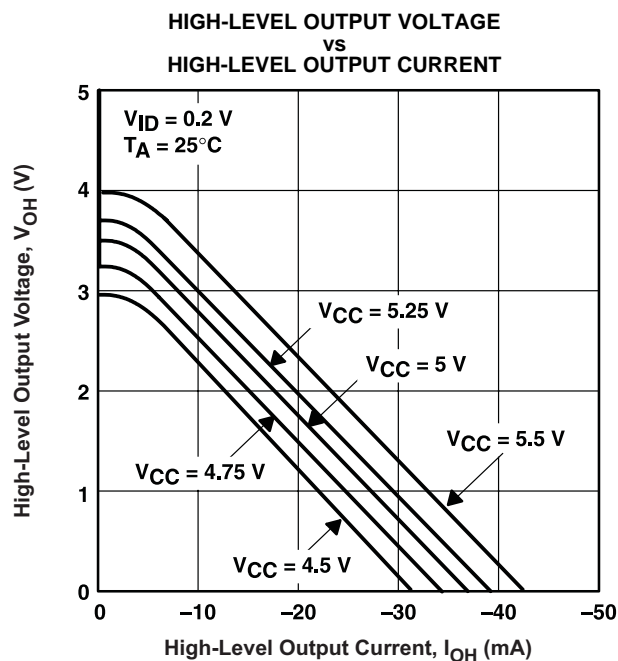
PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.
B. All diodes are 1N3064 or equivalent.
C. Enable G is tested with \bar{G} high; \bar{G} is tested with G low.

Figure 1. Test Circuit and Voltage Waveforms

TYPICAL CHARACTERISTICS



† $V_{CC} = 5.5\text{ V}$ and $V_{CC} = 4.5\text{ V}$ applies to M-suffix devices only.

Figure 2.

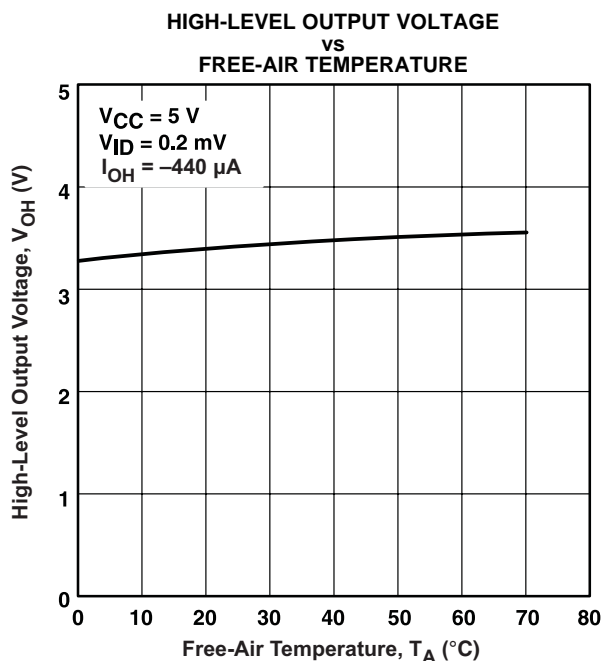


Figure 3.

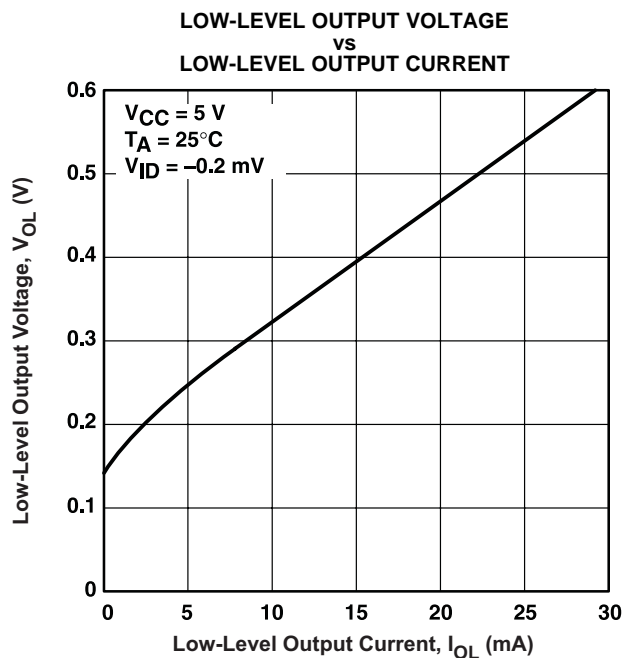


Figure 4.

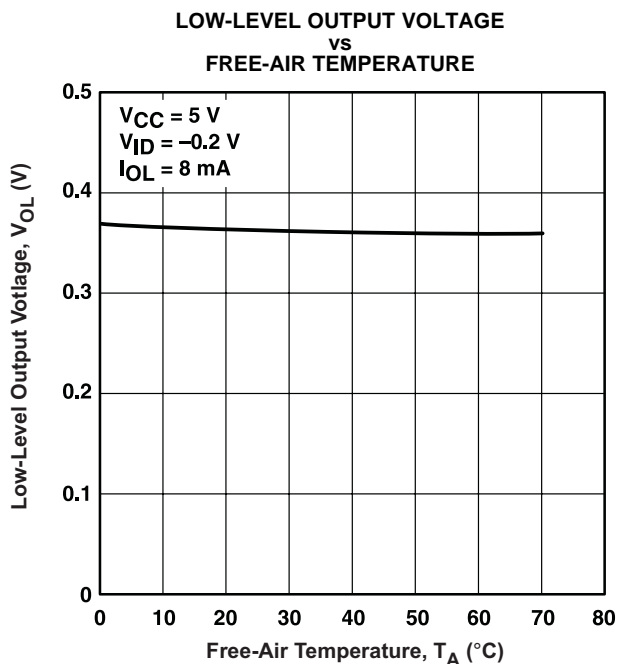


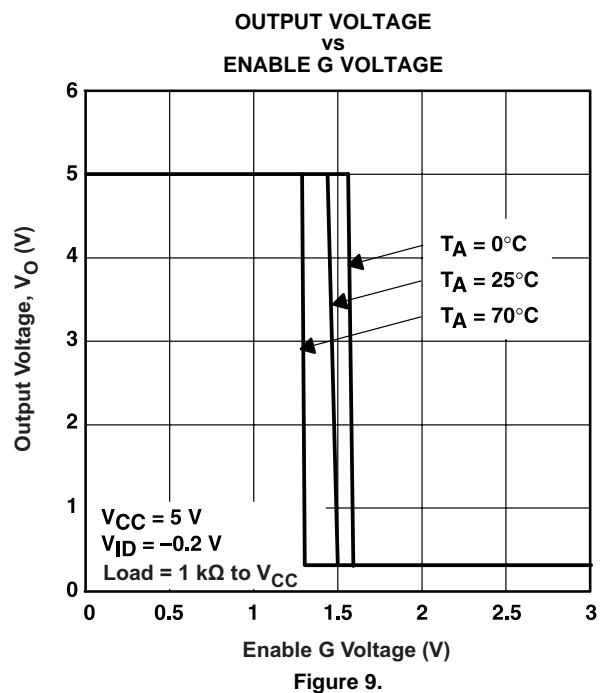
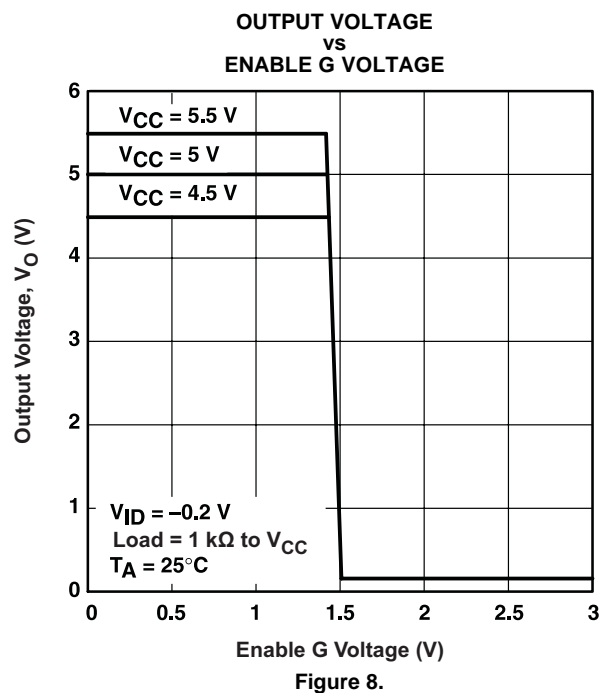
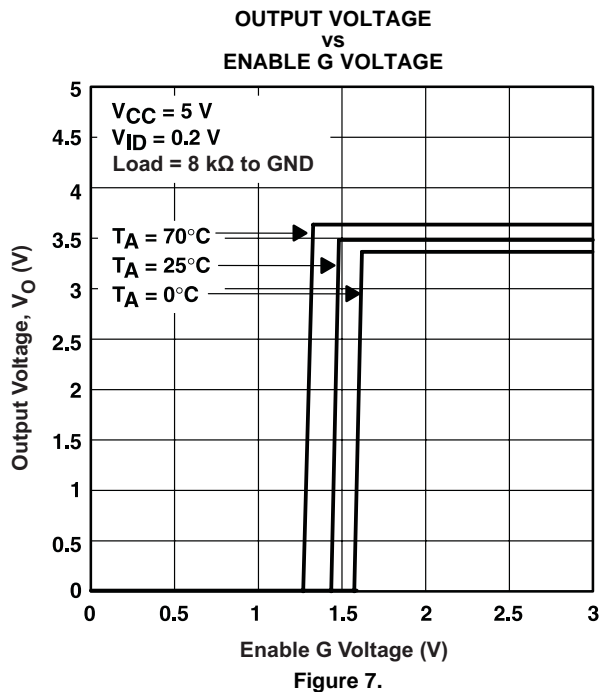
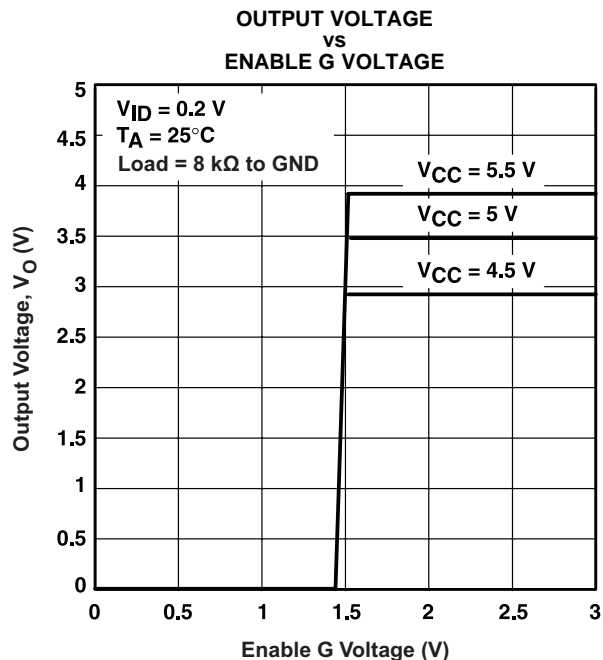
Figure 5.

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

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TYPICAL CHARACTERISTICS (continued)



TYPICAL CHARACTERISTICS (continued)

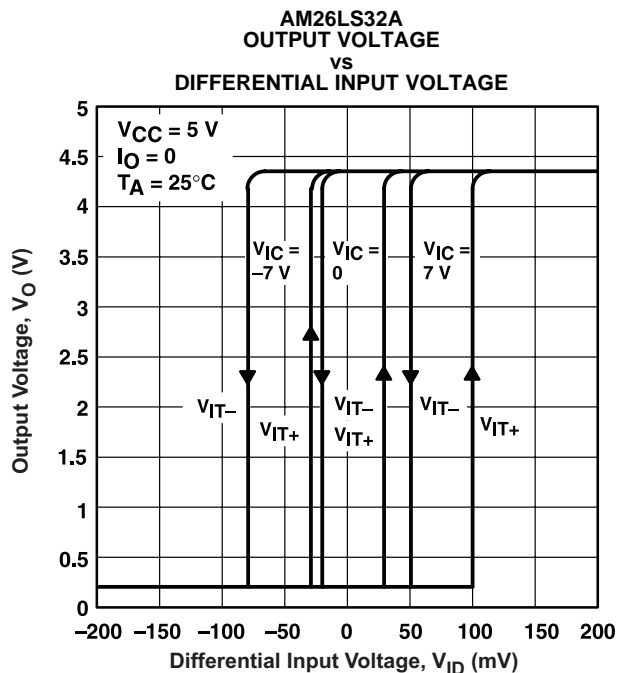


Figure 10.

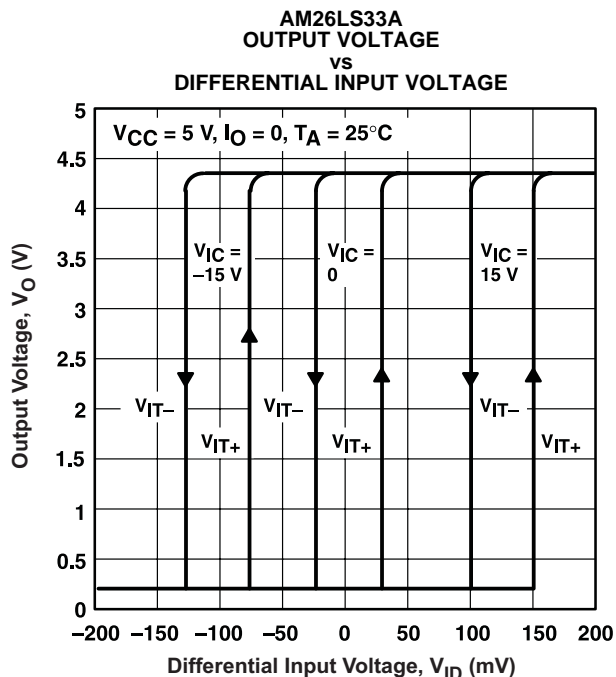
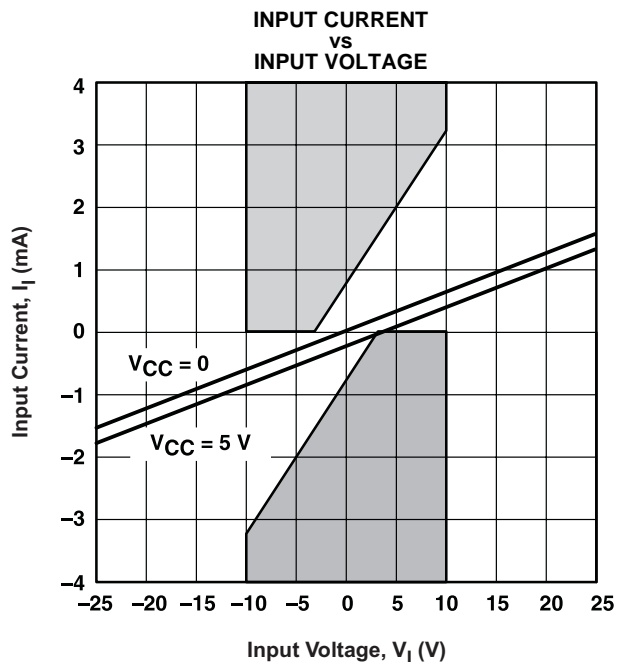


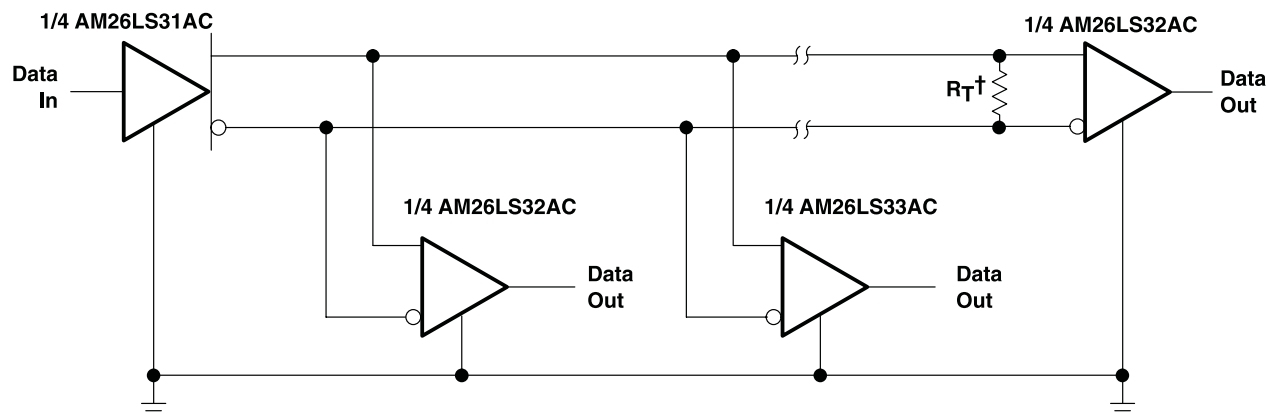
Figure 11.



The unshaded area shows requirements of paragraph 4.2.1 of ANSI Standards EIA/TIA-422-B and EIA/TIA-423-B.

Figure 12.

APPLICATION INFORMATION



$^\dagger R_T$ equals the characteristic impedance of the line.

Figure 13. Circuit with Multiple Receivers

PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| 5962-7802003M2A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-7802003MEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| 5962-7802003MFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| 5962-7802004M2A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-7802004MEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| 5962-7802004MFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS32ACD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS32ACNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS32ACNSR | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACNSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPW | ACTIVE | TSSOP | PW | 16 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPWE4 | ACTIVE | TSSOP | PW | 16 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPWG4 | ACTIVE | TSSOP | PW | 16 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPWR | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPWRE4 | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32ACPWRG4 | ACTIVE | TSSOP | PW | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AID | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AIDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AIDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AIDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AIDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| AM26LS32AIDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS32AIN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS32AINE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS32AMFKB | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| AM26LS32AMJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS32AMJB | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS32AMWB | ACTIVE | CFP | W | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS33ACD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| AM26LS33ACN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS33ACNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| AM26LS33AMFKB | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| AM26LS33AMJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS33AMJB | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| AM26LS33AMWB | ACTIVE | CFP | W | 16 | 1 | TBD | A42 SNPB | 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.

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.

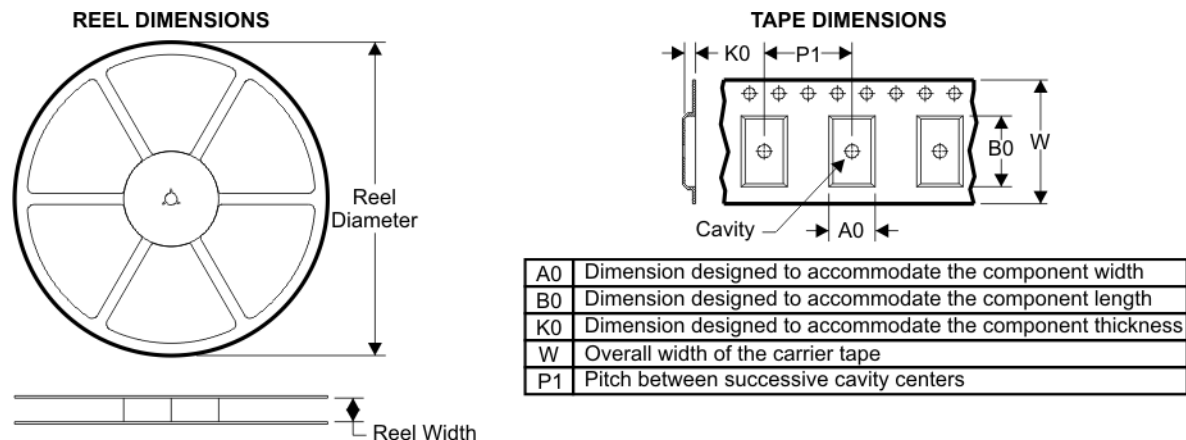
Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

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

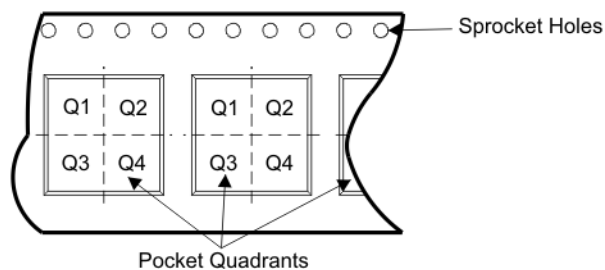
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TAPE AND REEL BOX INFORMATION



QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



| Device | Package | Pins | Site | Reel Diameter (mm) | Reel Width (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|---------|------|---------|--------------------|-----------------|---------|---------|---------|---------|--------|---------------|
| AM26LS32ACDR | D | 16 | SITE 27 | 330 | 16 | 6.5 | 10.3 | 2.1 | 8 | 16 | Q1 |
| AM26LS32ACDR | D | 16 | SITE 41 | 330 | 16 | 6.5 | 10.3 | 2.1 | 8 | 16 | Q1 |
| AM26LS32ACNSR | NS | 16 | SITE 41 | 330 | 16 | 8.2 | 10.5 | 2.5 | 12 | 16 | Q1 |
| AM26LS32ACPWR | PW | 16 | SITE 41 | 330 | 12 | 7.0 | 5.6 | 1.6 | 8 | 12 | Q1 |
| AM26LS32AIDR | D | 16 | SITE 27 | 330 | 16 | 6.5 | 10.3 | 2.1 | 8 | 16 | Q1 |
| AM26LS33ACDR | D | 16 | SITE 27 | 330 | 16 | 6.5 | 10.3 | 2.1 | 8 | 16 | Q1 |

TAPE AND REEL BOX DIMENSIONS

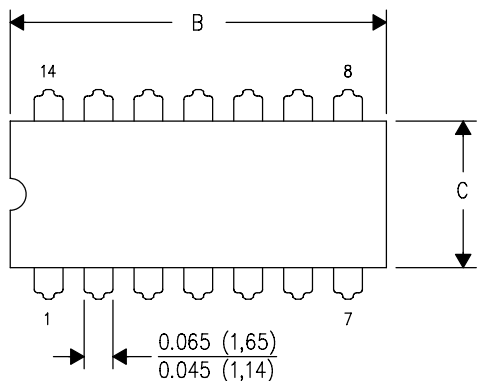


| Device | Package | Pins | Site | Length (mm) | Width (mm) | Height (mm) |
|---------------|---------|------|---------|-------------|------------|-------------|
| AM26LS32ACDR | D | 16 | SITE 27 | 342.9 | 336.6 | 28.58 |
| AM26LS32ACDR | D | 16 | SITE 41 | 346.0 | 346.0 | 33.0 |
| AM26LS32ACNSR | NS | 16 | SITE 41 | 346.0 | 346.0 | 33.0 |
| AM26LS32ACPWR | PW | 16 | SITE 41 | 346.0 | 346.0 | 29.0 |
| AM26LS32AIDR | D | 16 | SITE 27 | 342.9 | 336.6 | 28.58 |
| AM26LS33ACDR | D | 16 | SITE 27 | 342.9 | 336.6 | 28.58 |

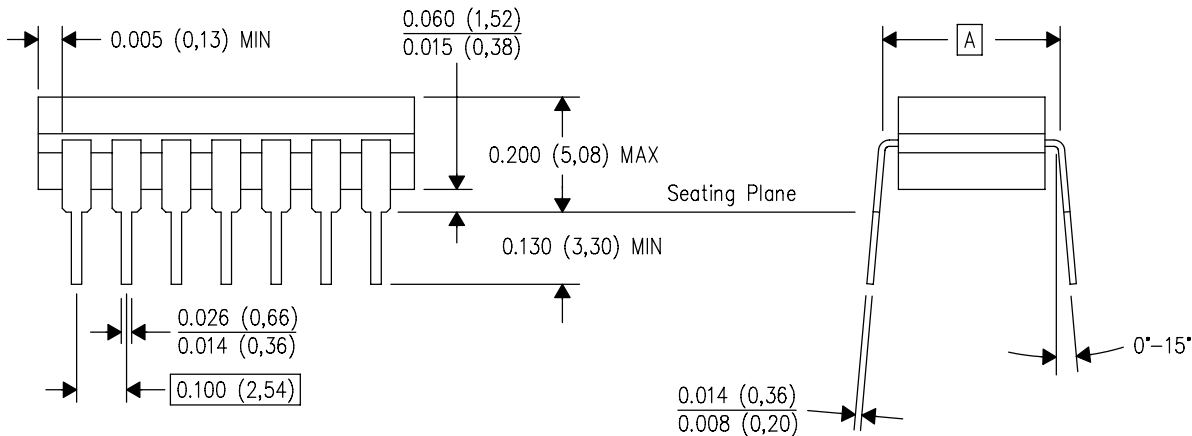
J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



| PINS ** DIM | 14 | 16 | 18 | 20 |
|----------------|------------------------|------------------------|------------------------|------------------------|
| A | 0.300 (7,62) BSC | 0.300 (7,62) BSC | 0.300 (7,62) BSC | 0.300 (7,62) BSC |
| B MAX | 0.785 (19,94) | .840 (21,34) | 0.960 (24,38) | 1.060 (26,92) |
| B MIN | — | — | — | — |
| C MAX | 0.300 (7,62) | 0.300 (7,62) | 0.310 (7,87) | 0.300 (7,62) |
| C MIN | 0.245 (6,22) | 0.245 (6,22) | 0.220 (5,59) | 0.245 (6,22) |

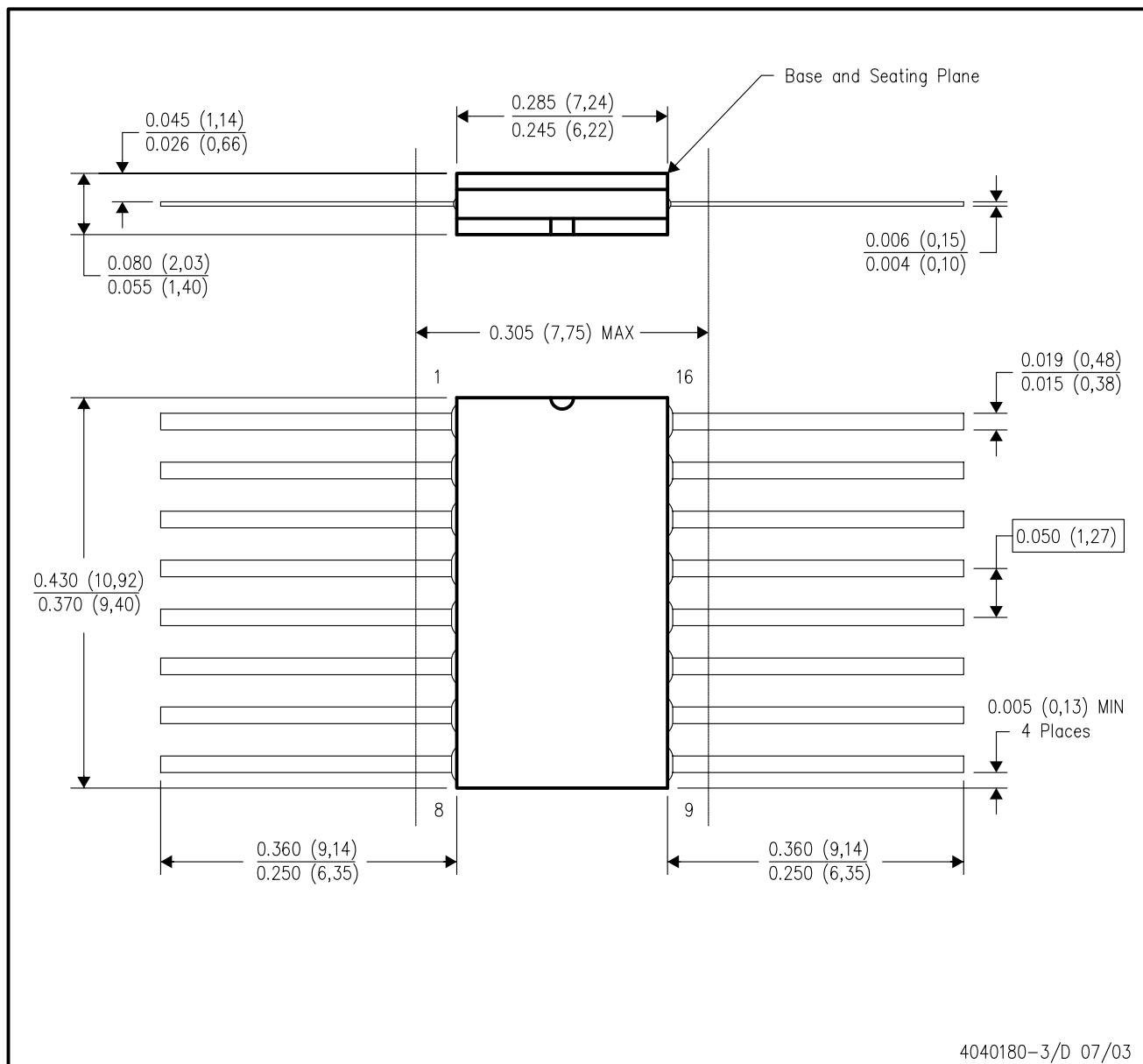


4040083/F 03/03

- 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.

W (R-GDFP-F16)

CERAMIC DUAL FLATPACK

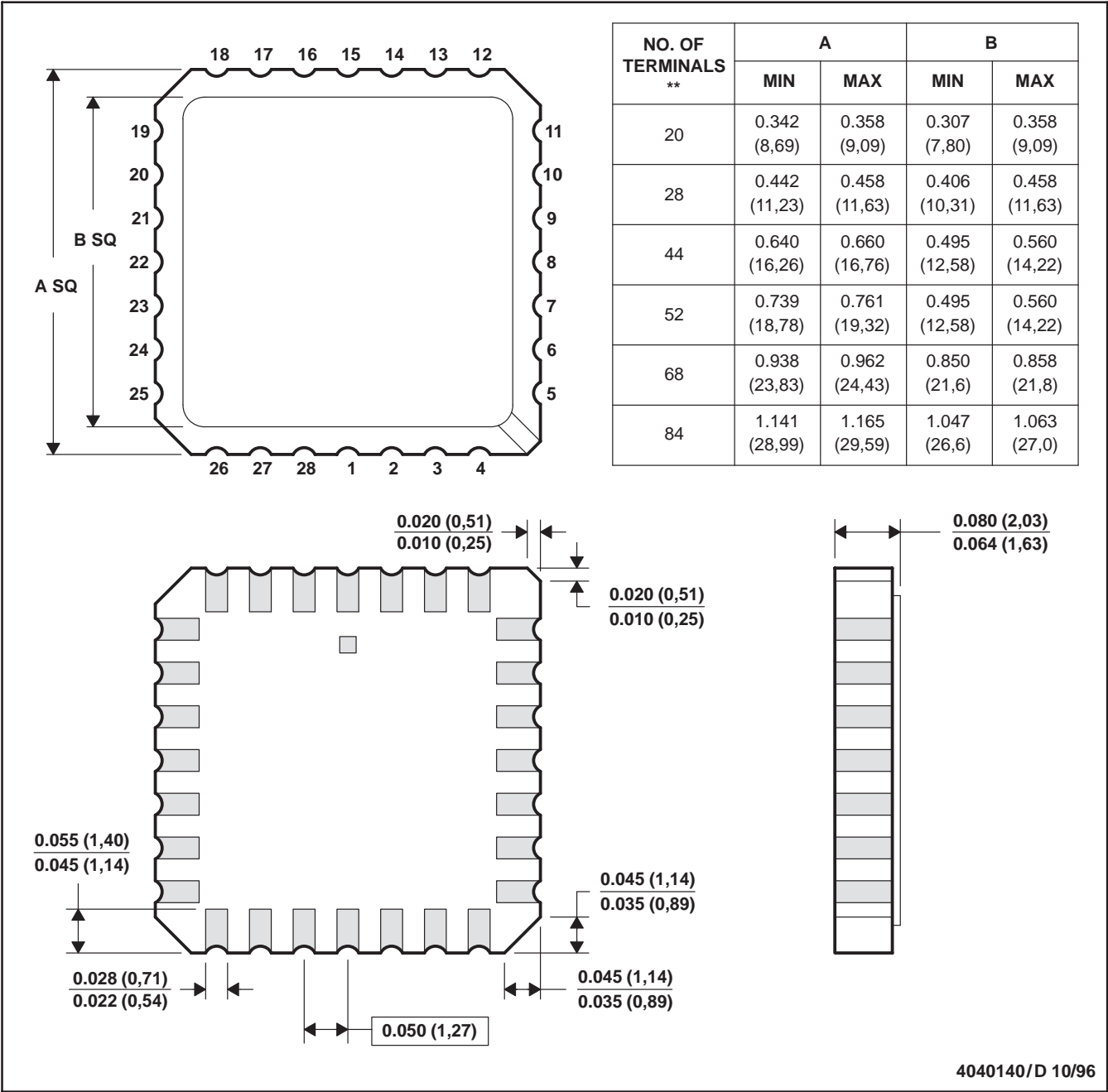


- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 - D. Index point is provided on cap for terminal identification only.
 - E. Falls within MIL STD 1835 GDFP1-F16 and JEDEC MO-092AC

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



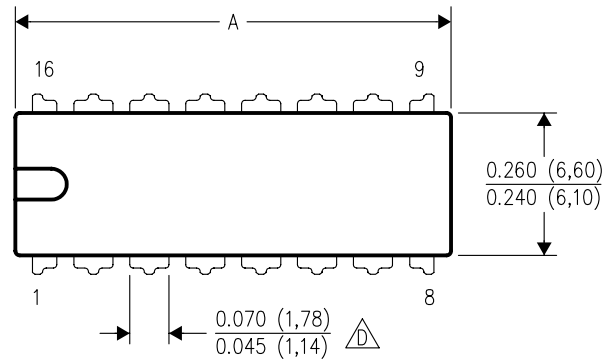
- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a metal lid.
 - D. The terminals are gold plated.
 - E. Falls within JEDEC MS-004

[查询"AM26LS32ACPW"供应商](#)

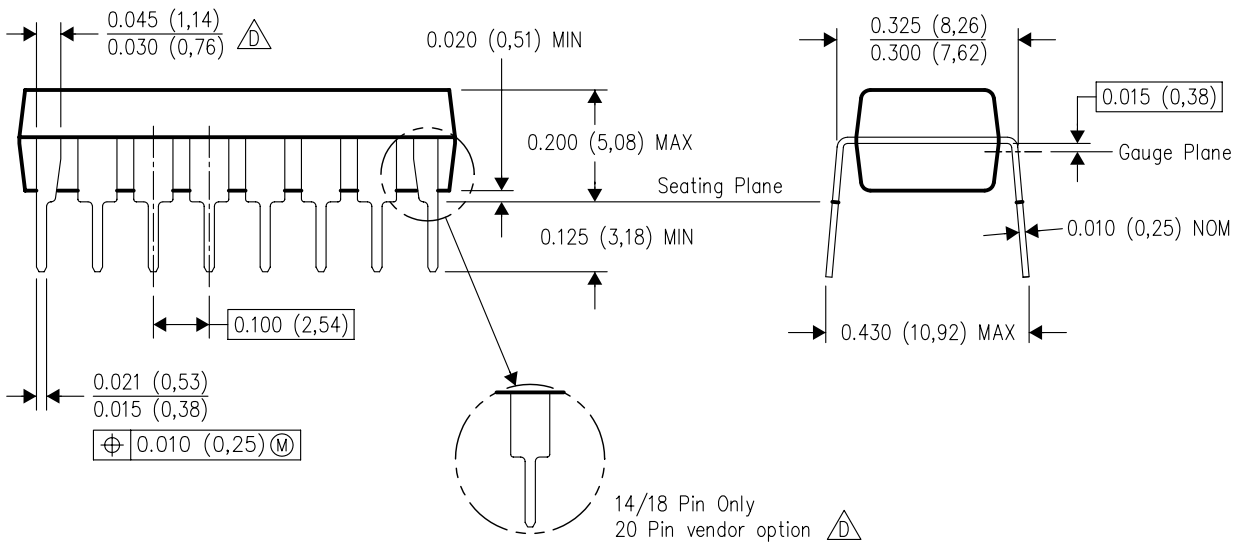
N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



| PINS ** | 14 | 16 | 18 | 20 |
|---------------------|------------------|------------------|------------------|------------------|
| DIM | | | | |
| A MAX | 0.775 (19,69) | 0.775 (19,69) | 0.920 (23,37) | 1.060 (26,92) |
| A MIN | 0.745 (18,92) | 0.745 (18,92) | 0.850 (21,59) | 0.940 (23,88) |
| MS-001 VARIATION | AA | BB | AC | AD |

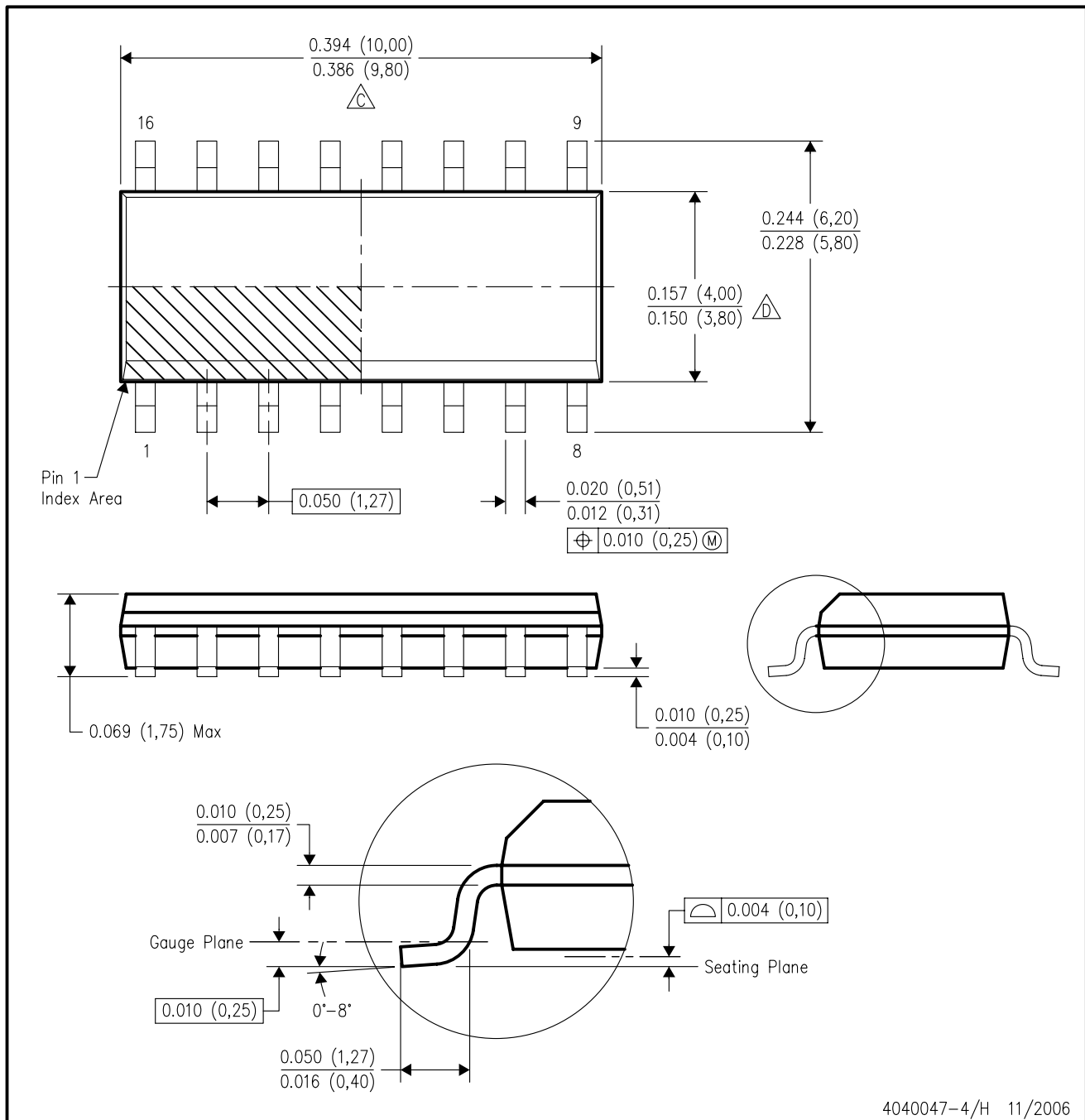


4040049/E 12/2002

- 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).
 - The 20 pin end lead shoulder width is a vendor option, either half or full width.

D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



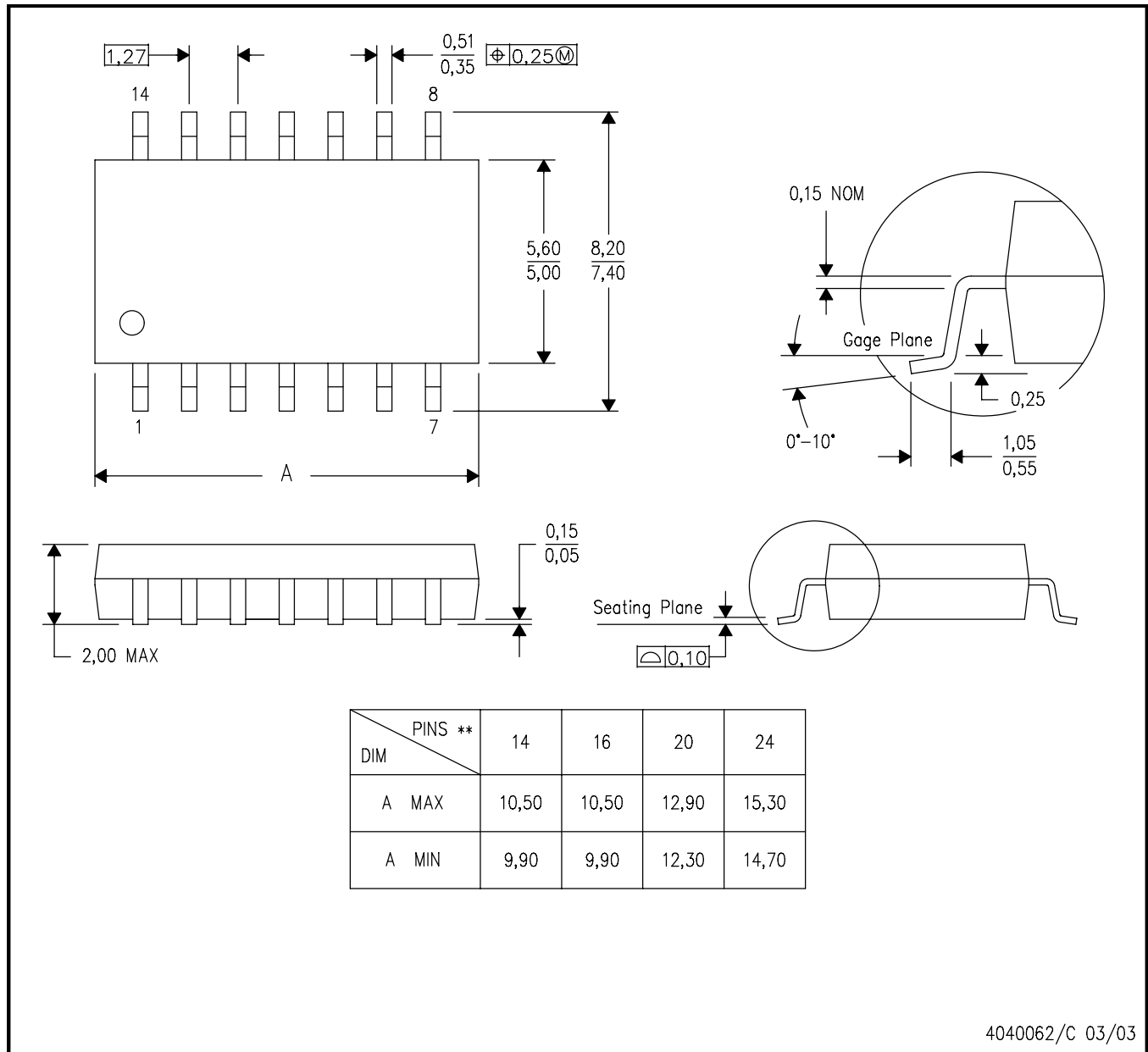
4040047-4/H 11/2006

MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- 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, not to exceed 0,15.

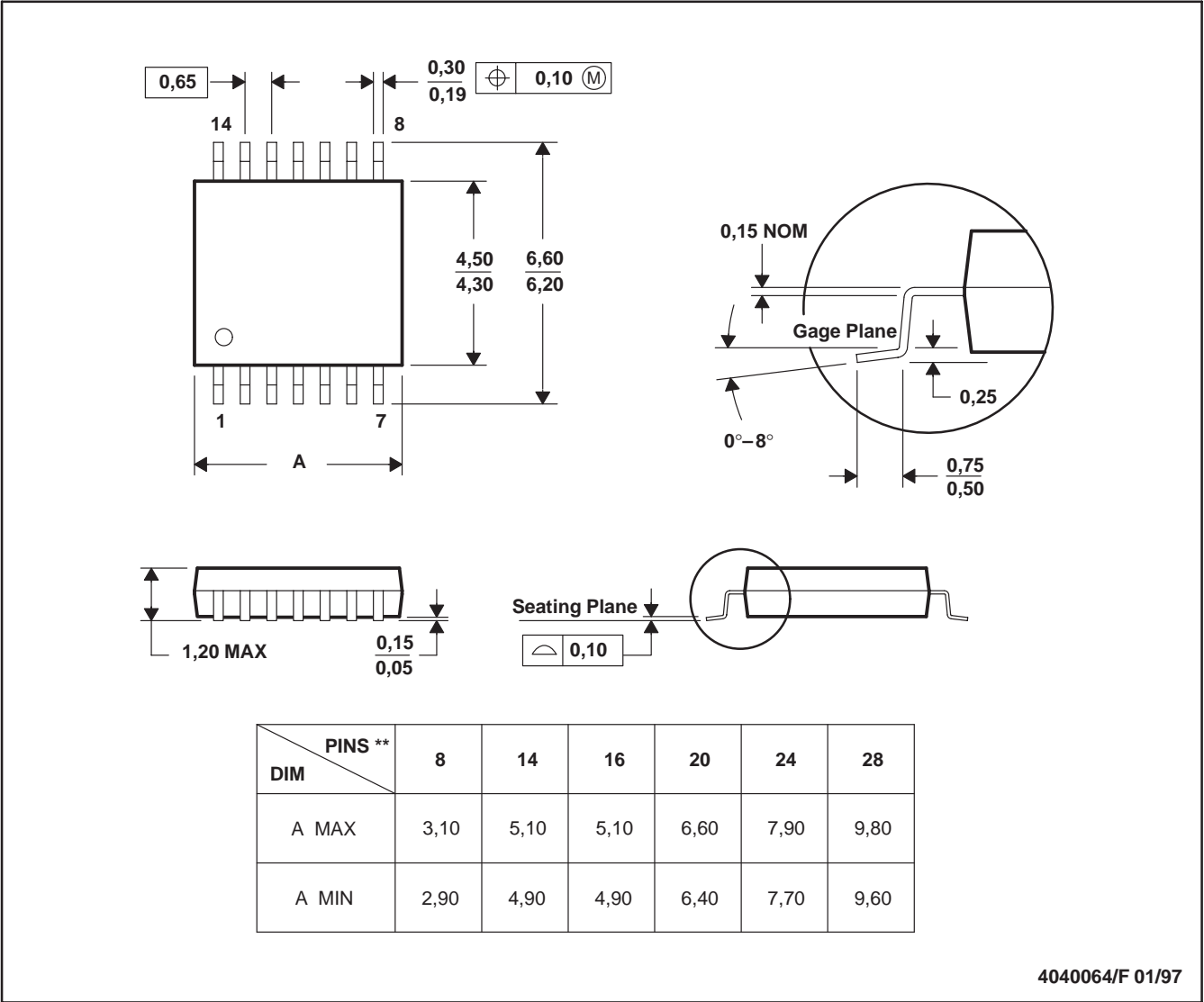
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MTSS001C – JANUARY 1995 – REVISED FEBRUARY 1999

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



- 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 not to exceed 0,15.
D. Falls within JEDEC MO-153

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