SLLS114I-JANUARY 1979-REVISED FEBRUARY 2006

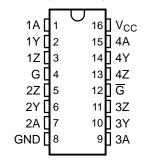
FEATURES

- Meets or Exceeds the Requirements of ANSI TIA/EIA-422-B and ITU
- Operates From a Single 5-V Supply
- TTL Compatible
- Complementary Outputs
- High Output Impedance in Power-Off Conditions
- Complementary Output-Enable Inputs

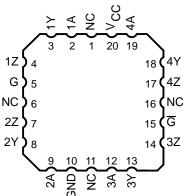
DESCRIPTION/ORDERING INFORMATION

The AM26LS31 is a quadruple complementary-output line driver designed to meet the requirements of ANSI TIA/EIA-422-B ITU (formerly and CCITT) Recommendation V.11. The 3-state outputs have high-current capability for driving balanced lines such as twisted-pair or parallel-wire transmission lines, and they are in the high-impedance state in the power-off condition. The enable function is common to all four drivers and offers the choice of an active-high or active-low enable (G, G) input. Low-power Schottky circuitry reduces power consumption sacrificing speed.

D, DB, N, NS, J, OR W PACKAGE (TOP VIEW)



FK PACKAGE (TOP VIEW)



ORDERING INFORMATION

T _A	PACK	AGE ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	AM26LS31CN	AM26LS31CN
	SOIC - D	Tube	AM26LS31CD	- AM26LS31C
0°C to 70°C	30IC - D	Tape and reel	AM26LS31CDR	AIVIZOESSTC
	SOP - NS	Tape and reel	AM26LS31CNSR	26LS31
	SSOP - DB	Tape and reel	AM26LS31CDBR	SA31C
	CDIP – J	Tube	AM26LS31MJB	AM26LS31MJB
–55°C to 125°C	LCCC - FK	Tube	AM26LS31MFKB	AM26LS31MFKB
	CFP – W	Tube	AM26LS31MWB	AM26LS31MWB

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



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.

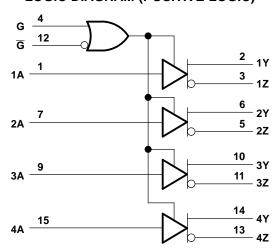


FUNCTION TABLE⁽¹⁾ (EACH DRIVER)

INPUT	ENA	BLES	OUTPUTS			
Α	G	G	Υ	Z		
Н	Н	Χ	Н	L		
L	Н	Χ	L	Н		
Н	Χ	L	Н	L		
L	Χ	L	L	Н		
Х	L	Н	Z	Z		

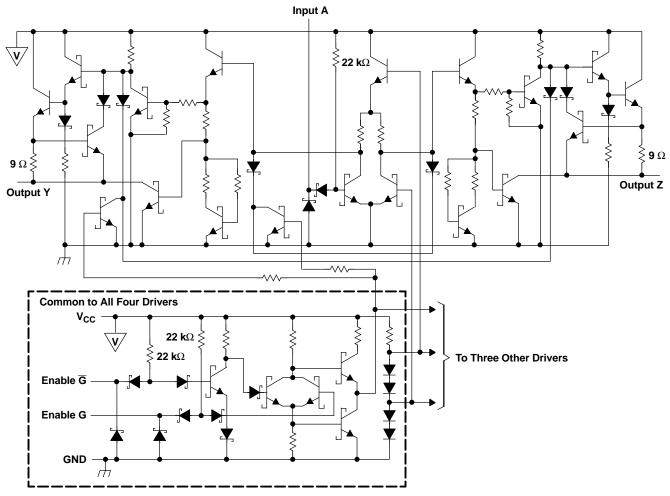
- (1) H = high level, L = low level, X = irrelevant, Z = high impedance (off)

LOGIC DIAGRAM (POSITIVE LOGIC)





SCHEMATIC (EACH DRIVER)



All resistor values are nominal.

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			7	V
	Output off-state voltage		5.5	V	
		D package		73	
0	Package thermal impedance (3)	DB package		82	°C/W
θ_{JA}	гаскаде шетпа шрецапсе ^{су}	N package		67	
		NS package		64	
	Lead temperature 1,6 mm (1/16 in) from case for 10 s		260	°C	
	Lead temperature 1,6 mm (1/16 in) from case for 60 s	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 output voltage V_{OD}, are with respect to network GND.

The package thermal impedance is calculated in accordance with JESD 51-7.

AM26LS31C, AM26LS31M QUADRUPLE DIFFERENTIAL LINE DRIVER

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Recommended Operating Conditions

			MIN	NOM	MAX	UNIT	
\/	Cumply valtage	AM26LS31C	4.75	5	5.25	V	
V _{CC}	Supply voltage	AM26LS31M	4.5	5	5.5	V	
V_{IH}	High-level input voltage	2			V		
V_{IL}	Low-level input voltage			0.8	V		
I _{OH}	High-level output current				-20	mA	
I _{OL}	Low-level output current				20	mA	
т	Operating free air temperature	AM26LS31C	0		70	°C	
T _A	Operating free-air temperature	AM26LS31M	-55		125		

Electrical Characteristics(1)

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

	PARAMETER	TES	ST CONDITIONS	MIN	TYP ⁽²⁾	MAX	UNIT
V_{IK}	Input clamp voltage	V _{CC} = MIN,	I _I = -18 mA			-1.5	V
V _{OH}	High-level output voltage	V _{CC} = MIN,	I _{OH} = -20 mA	2.5			V
V _{OL}	Low-level output voltage	V _{CC} = MIN,	I _{OL} = 20 mA			0.5	V
	Off-state (high-impedance-state)	V - MINI	V _O = 0.5 V			-20	^
loz	output current	$V_{CC} = MIN,$	V _O = 2.5 V			20	μΑ
I	Input current at maximum input voltage	$V_{CC} = MAX$,	V _I = 7 V			0.1	mA
I _{IH}	High-level input current	$V_{CC} = MAX$,	V _I = 2.7 V			20	μΑ
I_{IL}	Low-level input current	$V_{CC} = MAX$,	$V_{I} = 0.4 V$			-0.36	mA
Ios	Short-circuit output current ⁽³⁾	$V_{CC} = MAX$		-30		-150	mA
I_{CC}	Supply current	$V_{CC} = MAX$,	All outputs disabled		32	80	mA

⁽¹⁾ For C-suffix devices, V_{CC} min = 4.75 V and V_{CC} max = 5.25 V. For M-suffix devices, V_{CC} min = 4.5 V and V_{CC} max = 5.5 V. (2) All typical values are at V_{CC} = 5 V and V_{A} = 25°C. (3) Not more than one output should be shorted at a time, and duration of the short circuit should not exceed one second.

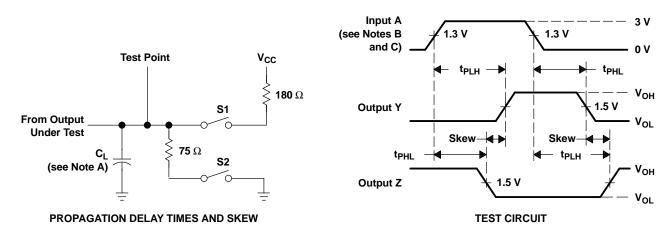
Switching Characteristics

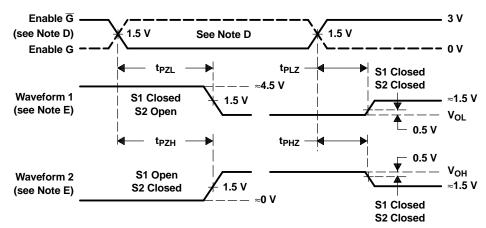
 $V_{CC} = 5 \text{ V (see Figure 1)}$

	PARAMETER		TEST CONDITIONS				AM26L	_S31M	UNIT	
	PARAMETER	IEST	CONDITIONS	MIN	TYP	MAX	MIN	MAX	UNIT	
t _{PLH}	Propagation delay time, low- to high-level output	C 20 pF	C1 and C2 anan		14	20		30	20	
t _{PHL}	Propagation delay time, high- to low-level output	$ C_L = 30 \text{ pF},$	S1 and S2 open		14	20		30	ns	
t _{PZH}	Output enable time to high level	C 20 pF	$R_L = 75 \Omega$		25	40		60	20	
t _{PZL}	Output enable time to low level	$C_L = 30 pF$	$R_L = 180 \Omega$		37	45		68	ns	
t _{PHZ}	Output disable time from high level	C 40 = E	C4 and C0 alasa d		21	30		45		
t _{PLZ}	Output disable time from low level	$C_L = 10 \text{ pr},$	S1 and S2 closed		23	35		53	ns	
t _{SKEW}	Output-to-output skew	C _L = 30 pF,	S1 and S2 open		1	6		9	ns	



PARAMETER MEASUREMENT INFORMATION





ENABLE AND DISABLE TIME WAVEFORMS

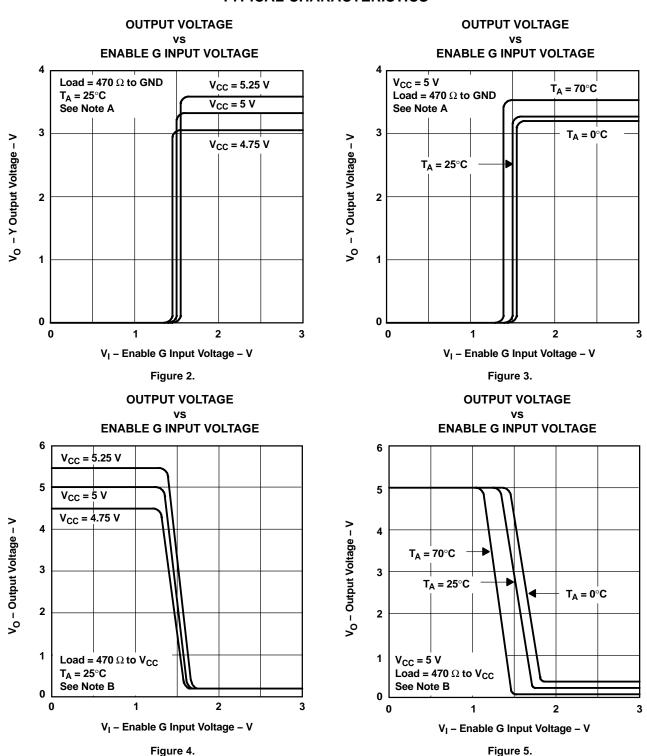
NOTES: A. C_L includes probe and jig capacitance.

- B. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O \approx 50~\Omega$, $t_f \leq 15$ ns, $t_f \leq 6$ ns.
- C. When measuring propagation delay times and skew, switches S1 and S2 are open.
- D. Each enable is tested separately.
- E. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.

Figure 1. Test Circuit and Voltage Waveforms



TYPICAL CHARACTERISTICS

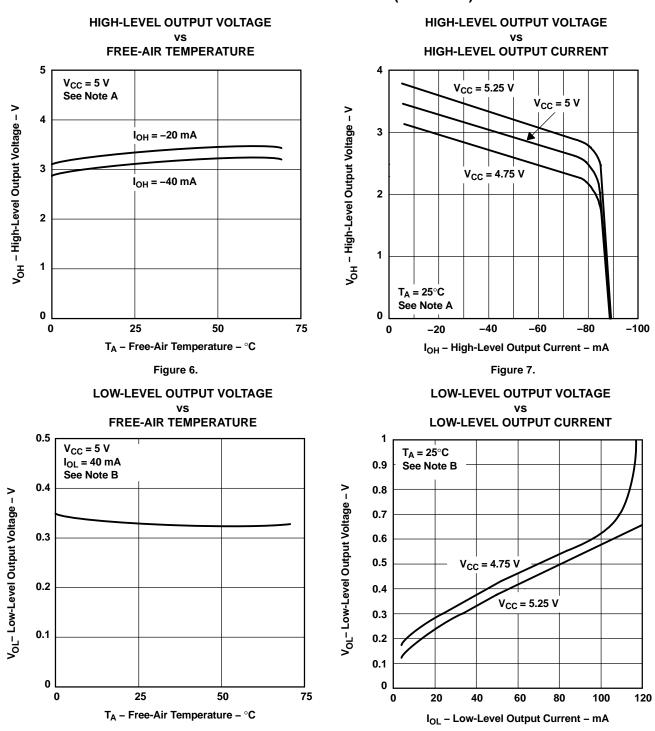


- A. The A input is connected to V_{CC} during testing of the Y outputs and to ground during testing of the Z outputs.
- B. The A input is connected to ground during testing of the Y outputs and to V_{CC} during testing of the Z outputs.

Figure 9.



TYPICAL CHARACTERISTICS (continued)



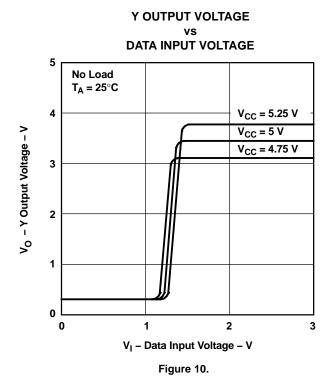
A. The A input is connected to V_{CC} during testing of the Y outputs and to ground during testing of the Z outputs.

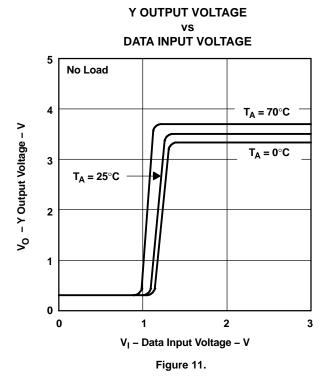
Figure 8.

B. The A input is connected to ground during testing of the Y outputs and to V_{CC} during testing of the Z outputs.



TYPICAL CHARACTERISTICS (continued)









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PACKAGING INFORMATION

Orderable Device	Status	Package Type	_	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing			(2)		(3)		(4)	
5962-7802301M2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Call TI	-55 to 125	5962- 7802301M2A AM26LS31 MFKB	Samples
5962-7802301MEA	ACTIVE	CDIP	J	16	1	TBD	Call TI	Call TI	-55 to 125	5962-7802301ME A AM26LS31MJB	Samples
5962-7802301MFA	ACTIVE	CFP	W	16	1	TBD	Call TI	Call TI	-55 to 125	5962-7802301MF A AM26LS31MWB	Samples
5962-7802301Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type		5962- 7802301Q2A AM26LS31M	Samples
AM26LS31CD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CDBR	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SA31C	Sample
AM26LS31CDBRE4	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SA31C	Sample
AM26LS31CDBRG4	ACTIVE	SSOP	DB	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SA31C	Sample
AM26LS31CDE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CDG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CDR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CDRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CDRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26LS31C	Sample
AM26LS31CN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	AM26LS31CN	Sample
AM26LS31CNE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	AM26LS31CN	Sample





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Orderable Device	Status	Package Type	_		Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
	(1)		Drawing			(2)		(3)		(4)	
AM26LS31CNSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	26LS31	Samples
AM26LS31CNSRG4	ACTIVE	so	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	26LS31	Samples
AM26LS31MFKB	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type		5962- 7802301M2A AM26LS31 MFKB	Samples
AM26LS31MJB	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-7802301ME A AM26LS31MJB	Samples
AM26LS31MWB	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type		5962-7802301MF A AM26LS31MWB	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.

(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⁾ Only one of markings shown within the brackets will appear on the physical device.

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PACKAGE OPTION ADDENDUM

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OTHER QUALIFIED VERSIONS OF AM26LS31, AM26LS31M:

Catalog: AM26LS31

Military: AM26LS31M

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

www.ti.com 8-Apr-2013

TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	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

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

"All dimensions are nomina												
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
AM26LS31CDBR	SSOP	DB	16	2000	330.0	16.4	8.2	6.6	2.5	12.0	16.0	Q1
AM26LS31CDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
AM26LS31CDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
AM26LS31CDRG4	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
AM26LS31CDRG4	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1

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*All dimensions are nominal

All difficultions are norminal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
AM26LS31CDBR	SSOP	DB	16	2000	367.0	367.0	38.0
AM26LS31CDR	SOIC	D	16	2500	333.2	345.9	28.6
AM26LS31CDR	SOIC	D	16	2500	367.0	367.0	38.0
AM26LS31CDRG4	SOIC	D	16	2500	367.0	367.0	38.0
AM26LS31CDRG4	SOIC	D	16	2500	333.2	345.9	28.6

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



- 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



- 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. 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-PDS0-G16)

PLASTIC SMALL OUTLINE



- 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 AC.



D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- 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.



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.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 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-150

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