

AM26C32 Quadruple Differential Line Receiver

Check for Samples: AM26C32

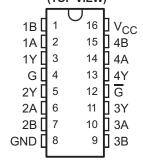
FEATURES

- Meets or Exceeds the Requirements of ANSI TIA/EIA-422-B, TIA/EIA-423-B, and ITU Recommendation V.10 and V.11
- Low Power, I_{CC} = 10 mA Typ
- ±7-V Common-Mode Range With ±200-mV Sensitivity
- Input Hysteresis: 60 mV Typ
- t_{pd} = 17 ns Typ
- Operates From a Single 5-V Supply
- 3-State Outputs
- Input Fail-Safe Circuitry
- Improved Replacements for AM26LS32 Device
- Available in Q-Temp Automotive
- On Products Compliant to MIL-PRF-38535, All Parameters Are Tested Unless Otherwise Noted. On All Other Products, Production Processing Does Not Necessarily Include Testing of All Parameters.

APPLICATIONS

- High-Reliability Automotive Applications
- Configuration Control/Print Support
- Qualification to Automotive Standards

AM26C32C . . . D, N, OR NS PACKAGE AM26C32I . . . D, N , NS, OR PW PACKAGE AM26C32Q . . . D PACKAGE AM26C32M . . . J OR W PACKAGE (TOP VIEW)

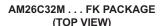


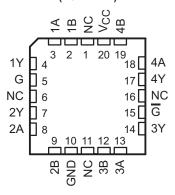
DESCRIPTION

The AM26C32 device is a quadruple differential line receiver for balanced or 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 specifies that if the inputs are open, the outputs always are high.

The AM26C32 devices are manufactured using a BiCMOS process, which is a combination of bipolar and CMOS transistors. This process provides the high voltage and current of bipolar with the low power of CMOS to reduce the power consumption to about one-fifth that of the standard AM26LS32, while maintaining ac and dc performance.

The AM26C32C device is characterized for operation from 0°C to 70°C. The AM26C32I device is characterized for operation from -40°C to 85°C. The AM26C32Q is characterized for operation from -40°C to 125°C. The AM26C32M device is characterized for operation over the full military temperature range of -55°C to 125°C.





NC - No internal connection



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.





This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

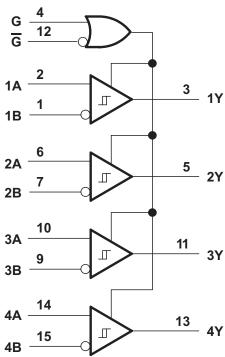
ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

Function Table (Each Driver)⁽¹⁾

DIFFERENTIAL	ENA	BLES	OUTPUT
INPUT	G	G	Y
V >V	Н	X	Н
$V_{ID} \ge V_{IT+}$	X	L	Н
., ., .,	Н	Х	?
$V_{IT} < V_{ID} < V_{IT+}$	X	L	?
\\	Н	X	L
$V_{ID} \le V_{IT}$	X	L	L
X	L	Н	Z

(1) H = High level, L = Low level, X = Irrelevant, Z = High impedance (off), ? = Indeterminate

Logic Diagram (Positive Logic)

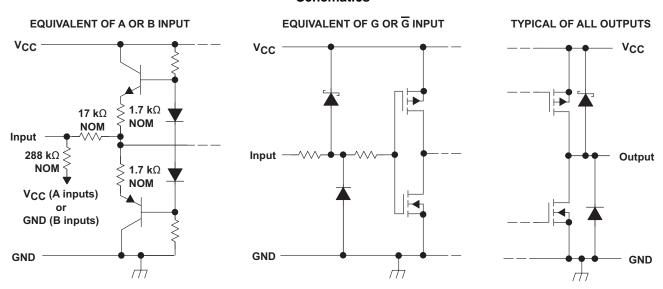


Pin numbers shown are for the D, DB, J, N, NS, PW, and W packages.

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Schematics



Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted) (1)

			MIN	MAX	UNIT
V_{CC}	Supply voltage range ⁽²⁾			7	V
.,	land della constant	A or B inputs	-11	14	V
VI	put voltage range fferential input voltage range utput voltage range utput current ackage thermal impedance (3)(4) perating virtual junction temperature and temperature 1,6 mm (1/16 inch) from case for 1	G or G inputs	-0.5	V _{CC} + 0.5	V
V_{ID}	Differential input voltage range	•	-14	14	V
Vo	Output voltage range		-0.5	V _{CC} + 0.5	V
Io	Output current			±25	mA
		D package		73	
0	Deckers thermal impedance (3)(4)	N package		67	°C/W
θ_{JA}	Package thermal impedance (**/**)	NS package		64	C/VV
		PW package		108	
TJ	Operating virtual junction temperature			150	°C
	Lead temperature 1,6 mm (1/16 inch) from case for 10	seconds		260	°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.
- All voltage values, except differential output voltage, V_{OD}, are with respect to network GND. Currents into the device are positive and currents out of the device are negative.
- Maximum power dissipation is a function of $T_{J(max)}$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_{J(max)} - T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability. The package thermal impedance is calculated in accordance with JESD 51-7.



Recommended Operating Conditions

			MIN	NOM	MAX	UNIT
V _{CC}	Supply voltage		4.5	5	5.5	V
V_{IH}	High-level input voltage		2			V
V_{IL}	Low-level input voltage				8.0	V
V_{IC}	Common-mode input voltage				±7	V
I _{OH}	High-level output current				-6	mA
I _{OL}	Low-level output current				6	mA
		AM26C32C	0		70	
_	On another fine a sintense part in	AM26C32I	-40		85	°C
T _A	A Operating free-air temperature	AM26C32Q	-40		125	10
		AM26C32M	-55		125	

Electrical Characteristics

over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

	PARAMETER	TEST CONDITI	ONS	MIN	TYP ⁽¹⁾	MAX	UNIT
V _{IT+}	Differential input high-threshold voltage	$V_{O} = V_{OH(min)}, I_{OH} = -440 \mu A$	$V_{IC} = -7 \text{ V to } 7 \text{ V}$			0.2	V
VII+	Differential input high-timeshold voltage	VO - VOH(min), IOH440 μΑ	$V_{IC} = 0 V \text{ to } 5.5 V$			0.1	v
V	Differential input law threshold voltage	\/ -0.45\/ -9.m/	$V_{IC} = -7 \text{ V to } 7 \text{ V}$	-0.2 ⁽²⁾			V
V _{IT} _	Differential input low-threshold voltage	$V_{O} = 0.45 \text{ V}, I_{OL} = 8 \text{ mA}$	$V_{IC} = 0 V \text{ to } 5.5 V$	-0.1 ⁽²⁾			V
V_{hys}	Hysteresis voltage (V _{IT+} – V _{IT-})		·		60		mV
V_{IK}	Enable input clamp voltage	$V_{CC} = 4.5 \text{ V}, I_{I} = -18 \text{ mA}$				-1.5	V
V_{OH}	High-level output voltage	$V_{ID} = 200 \text{ mV}, I_{OH} = -6 \text{ mA}$		3.8			V
V_{OL}	Low-level output voltage	$V_{ID} = -200 \text{ mV}, I_{OL} = 6 \text{ mA}$			0.2	0.3	V
l _{OZ}	Off-state (high-impedance state) output current	$V_O = V_{CC}$ or GND			±0.5	±5	μA
	Line in and an area	V _I = 10 V, Other input at 0 V				1.5	
I _I	Line input current	$V_I = -10 \text{ V}$, Other input at 0 V				-2.5	μA
I _{IH}	High-level enable current	V _I = 2.7 V				20	μA
I _{IL}	Low-level enable current	V _I = 0.4 V				-100	μA
r _i	Input resistance	One input to ground		12	17		kΩ
I _{CC}	Quiescent supply current	V _{CC} = 5.5 V			10	15	mA

Switching Characteristics

over recommended ranges of operation conditions, $C_L = 50 \text{ pF}$ (unless otherwise noted)

	PARAMETER	TEST		M26C32C AM26C32I		A A	UNIT		
		CONDITIONS	MIN	TYP ⁽¹⁾	MAX	MIN	TYP ⁽¹⁾	MAX	
t _{PLH}	Propagation delay time, low- to high-level output	Con Figure 4	9	17	27	9	17	27	ns
t _{PHL}	Propagation delay time, high- to low-level output	See Figure 1	9	17	27	9	17	27	ns
t _{TLH}	Output transition time, low- to high-level output	Con Figure 4		4	9		4	10	ns
t _{THL}	Output transition time, high- to low-level output	See Figure 1		4	9		4	9	ns
t _{PZH}	Output enable time to high level	Con Figure 2		13	22		13	22	ns
t _{PZL}	Output enable time to low level	See Figure 2		13	22		13	22	ns
t _{PHZ}	Output disable time from high level	Con Figure 2		13	22		13	26	ns
t_{PLZ}	Output disable time from low level	See Figure 2		13	22		13	25	ns

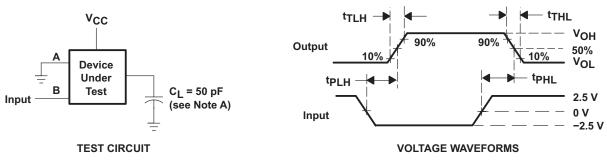
All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25 ^{\circ}\text{C}$.

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 ⁽¹⁾ All typical values are at V_{CC} = 5 V, V_{IC} = 0, and T_A = 25°C.
 (2) The algebraic convention, in which the less positive (more negative) limit is designated minimum, is used in this data sheet for common-mode input voltage.



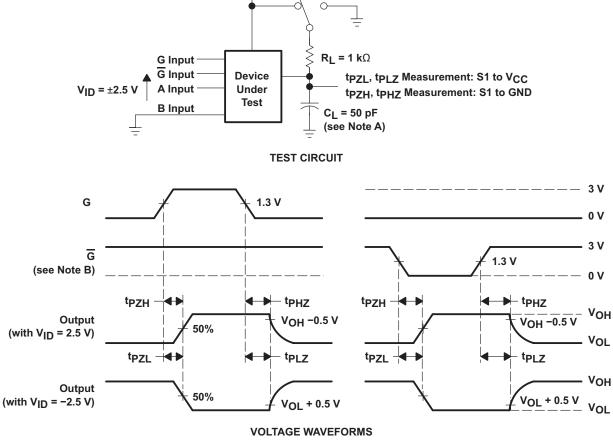
Parameter Measurement Information



C_L includes probe and jig capacitance.

Figure 1. Switching Test Circuit and Voltage Waveforms

 v_{CC}



- A. C_L includes probe and jig capacitance.
- B. The input pulse is supplied by a generator having the following characteristics: PRR = 1 MHz, duty cycle \leq 50%, $t_r = t_f = 6$ ns.

Figure 2. Enable/Disable Time Test Circuit and Output Voltage Waveforms

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REVISION HISTORY

Cł	hanges from Revision I (September 2004) to Revision J	Page
•	Updated document to new TI data sheet format - no specification changes	1
•	Deleted Ordering Information table.	1
•	Updated Features.	1
•	ESD warning.	2





10-Jun-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9164001Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9164001Q2A AM26C32 MFKB	Samples
5962-9164001QEA	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9164001QE A AM26C32MJB	Samples
5962-9164001QFA	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9164001QF A AM26C32MWB	Samples
AM26C32CD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26C32C	Samples
AM26C32CDBLE	OBSOLETE	SSOP	DB	16		TBD	Call TI	Call TI	0 to 70		
AM26C32CDE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26C32C	Samples
AM26C32CDR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26C32C	Samples
AM26C32CDRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26C32C	Samples
AM26C32CDRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	AM26C32C	Samples
AM26C32CN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	AM26C32CN	Samples
AM26C32CNE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	AM26C32CN	Samples
AM26C32CNSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	26C32	Samples
AM26C32CNSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	26C32	Samples
AM26C32CNSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	26C32	Samples
AM26C32ID	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samples
AM26C32IDBLE	OBSOLETE	SSOP	DB	16		TBD	Call TI	Call TI	-40 to 85		





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Orderable Device	Status	Package Type	_	Pins		Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Sampl
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
AM26C32IDE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samp
AM26C32IDG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samp
AM26C32IDR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samp
AM26C32IDRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samp
AM26C32IDRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	AM26C32I	Samp
AM26C32IN	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	AM26C32IN	Samp
AM26C32INE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	AM26C32IN	Samp
AM26C32INSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samp
AM26C32IPW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samp
AM26C32IPWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samp
AM26C32IPWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samj
AM26C32IPWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samj
AM26C32IPWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	26C32I	Samj
AM26C32MFKB	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9164001Q2A AM26C32 MFKB	Sam
AM26C32MJB	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9164001QE A AM26C32MJB	Samp
AM26C32MWB	ACTIVE	CFP	W	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9164001QF A AM26C32MWB	Samj



PACKAGE OPTION ADDENDUM

10-Jun-2014

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
AM26C32QD	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	AM26C32Q	Samples
AM26C32QDG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	26C32Q	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) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF AM26C32, AM26C32M:

Catalog: AM26C32

● Enhanced Product: AM26C32-EP, AM26C32-EP

Military: AM26C32M

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Enhanced Product Supports Defense, Aerospace and Medical Applications
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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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

	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
	AM26C32CDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
	AM26C32IDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
Ī	AM26C32IPWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

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*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
AM26C32CDR	SOIC	D	16	2500	333.2	345.9	28.6
AM26C32IDR	SOIC	D	16	2500	333.2	345.9	28.6
AM26C32IPWR	TSSOP	PW	16	2000	367.0	367.0	35.0

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 GDFP2-F16



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.



PW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- 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



PW (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.



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

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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