SCLS175D – MARCH 1984 – REVISED AUGUST 2003

- Operating Voltage Range of 4.5 V to 5.5 V
- High-Current Outputs Drive Up To 15 LSTTL Loads
- Low Power Consumption, 80-µA Max ICC
- Typical t<sub>pd</sub> = 13 ns
- ±6-mA Output Drive at 5 V
- Low Input Current of 1 μA Max
- Inputs Are TTL-Voltage Compatible
- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers

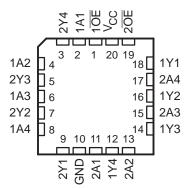
#### description/ordering information

These octal buffers and line drivers are designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. The 'HCT244 devices are organized as two 4-bit buffers/drivers with separate output-enable (OE) inputs. When OE is low, the device passes noninverted data from the A inputs to the Y outputs. When OE is high, the outputs are in the high-impedance state.

SN54HCT244 J OR W PACKAGE
SN74HCT244 DB, DW, N, NS, OR PW PACKAGE
(TOP VIEW)

1OE   1A1   2Y4   1A2   2Y3   1A3   2Y2		20 19 18 17 16 15 14	V <sub>CC</sub>   2OE   1Y1   2A4   1Y2   2A3   1Y3
1A3			2A3
	6		
1A4	8	13	2A2
2Y1	9	12	1Y4
GND	10	11	2A1

#### SN54HCT244 . . . FK PACKAGE (TOP VIEW)



#### **ORDERING INFORMATION**

TA	PACKA	3E†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74HCT244N	SN74HCT244N
	SOIC - DW	Tube of 25	SN74HCT244DW	HCT244
	50IC - DVV	Reel of 2000	SN74HCT244DWR	HC1244
–40°C to 85°C	SOP – NS	Reel of 2000	SN74HCT244NSR	HCT244
-40°C 10 85°C	SSOP – DB	Reel of 2000	SN74HCT244DBR	HT244
		Tube of 70	SN74HCT244PW	
	TSSOP – PW	Reel of 2000	SN74HCT244PWR	HT244
		Reel of 250	SN74HCT244PWT	
	CDIP – J	Tube of 20	SNJ54HCT244J	SNJ54HCT244J
–55°C to 125°C	CFP – W	Tube of 85	SNJ54HCT244W	SNJ54HCT244W
	LCCC – FK	Tube of 55	SNJ54HCT244FK	SNJ54HCT244FK

<sup>†</sup> 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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

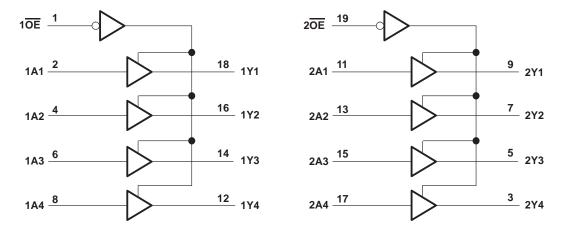


Copyright © 2003, Texas Instruments Incorporated On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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FUNCTION TABLE (each buffer/driver)										
INPUTS OUTPUT										
OE	Α	Y								
L	Н	Н								
L	L	L								
Н	Х	Z								

### logic diagram (positive logic)



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

	e Note 1) ) (see Note 1) DB package DW package N package	±20 mA ±20 mA ±35 mA ±70 mA 70°C/W 58°C/W 69°C/W
	N package	
	PW package	
Storage temperature range, T <sub>stg</sub>		-65°C to 150°C

† 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. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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



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### recommended operating conditions (see Note 3)

			SN	54HCT2	44	SN	74HCT2	44	UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage		4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2			2			V
VIL	Low-level input voltage	$V_{CC} = 4.5 V \text{ to } 5.5 V$			0.8			0.8	V
VI	Input voltage		0		VCC	0		VCC	V
Vo	Output voltage		0		VCC	0		VCC	V
$\Delta t/\Delta v$	Input transition rise/fall time				500			500	ns
ТА	Operating free-air temperature		-55		125	-40		85	°C

NOTE 3: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

## electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CO	TEST CONDITIONS			A = 25°C	;	SN54H	CT244	SN74H	CT244	UNIT
PARAMETER	TEST CO	NDITIONS	Vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
Vou	VI = VIH or VIL	I <sub>OH</sub> = -20 μA	4.5 V	4.4	4.499		4.4		4.4		V
VOH	vI = vIH or vIL	I <sub>OH</sub> = -6 mA	4.5 V	4.5 V 3.98 4.3	3.7		3.84		v		
Ve	VI = VIH or VIL	I <sub>OL</sub> = 20 μA	4.5 V		0.001	0.1		0.1		0.1	V
VOL	vI = vIH or vIL	$I_{OL} = 6 \text{ mA}$	4.5 V		0.17	0.26		0.4		0.33	v
lj	$V_I = V_{CC} \text{ or } 0$		5.5 V		±0.1	±100		±1000		±1000	nA
I <sub>OZ</sub>	$V_{O} = V_{CC} \text{ or } 0,$	$V_I = V_{IH} \text{ or } V_{IL}$	5.5 V		±0.01	±0.5		±10		±5	μA
ICC	$V_I = V_{CC} \text{ or } 0,$	l <sub>O</sub> = 0	5.5 V			8		160		80	μΑ
$\Delta I_{CC}^{\dagger}$	One input at 0.5 V Other inputs at 0 o		5.5 V		1.4	2.4		3		2.9	mA
Ci			4.5 V to 5.5 V		3	10		10		10	pF

<sup>†</sup> This is the increase in supply current for each input that is at one of the specified TTL voltage levels, rather than 0 V or V<sub>CC</sub>.

# switching characteristics over recommended operating free-air temperature range, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	Vaa	Τį	ן = 25°C	;	SN54H	CT244	SN74H	CT244	UNIT
PARAMETER	(INPUT)	(OUTPUT)	Vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
÷ .	А	V	4.5 V		15	28		42		35	ns
<sup>t</sup> pd	~	Ť	5.5 V		13	25		38		32	115
+	OE	V	4.5 V		21	35		53		44	2
ten	OE	Т	5.5 V		19	32		48		40	ns
<b>+</b>		V	4.5 V		19	35		53		44	ns
<sup>t</sup> dis	OE	Y	5.5 V		18	32		48		40	115
+.	V	4.5 V		8	12		18		15	ns	
tt		I	5.5 V		7	11		16		14	115



### SN54HCT244, SN74HCT244 **OCTAL BUFFERS AND LINE DRIVERS** WITH 3-STATE OUTPUTS SCLS175D - MARCH 1984 - REVISED AUGUST 2003

# switching characteristics over recommended operating free-air temperature range, $C_L = 150 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	Vaa	T <sub>A</sub> = 25°C			SN54HCT244		SN74HCT244		UNIT				
FARAWETER	(INPUT)	(OUTPUT)	Vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT				
÷ .		V	4.5 V		21	45		68		56	-				
<sup>t</sup> pd	A	T	I	I		I	5.5 V		18	40		61		51	ns
		V	4.5 V		25	52		79		65	-				
ten	OE	T	5.5 V		22	47		71		59	ns				
		V	4.5 V		17	42		63		53					
tt		ŕ	5.5 V		14	38		57		48	ns				

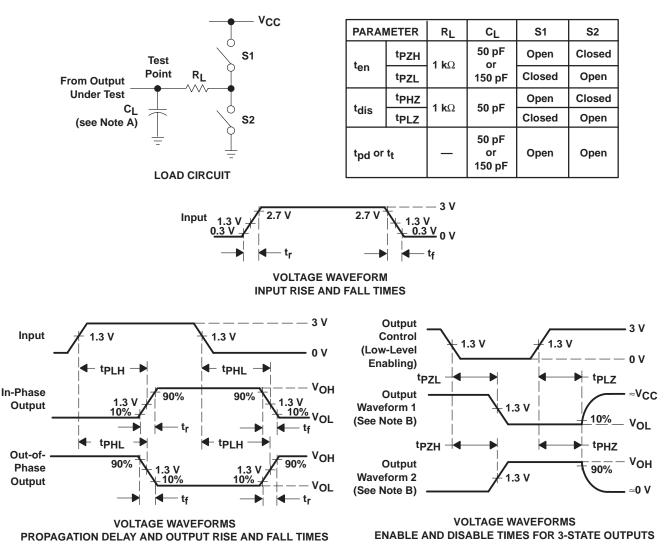
### operating characteristics, $T_A$ = 25°C

	PARAMETER	TEST CONDITIONS	TYP	UNIT
Cpd	Power dissipation capacitance per buffer/driver	No load	40	pF



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#### PARAMETER MEASUREMENT INFORMATION



- NOTES: A. CL includes probe and test-fixture capacitance.
  - B. 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.
  - C. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics:  $PRR \le 1$  MHz,  $Z_O = 50 \Omega$ ,  $t_r = 6$  ns,  $t_f = 6$  ns.
  - D. The outputs are measured one at a time with one input transition per measurement.
  - E. t<sub>PLZ</sub> and t<sub>PHZ</sub> are the same as t<sub>dis</sub>.
  - F. tp71 and tp7H are the same as ten.
  - G. tpLH and tpHL are the same as tpd.

#### Figure 1. Load Circuit and Voltage Waveforms





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### **PACKAGING INFORMATION**

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Peak Temp <sup>(3)</sup>	Samples (Requires Login)
5962-8513001VRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	
5962-8513001VSA	ACTIVE	CFP	W	20	1	TBD	Call TI	N / A for Pkg Type	
85130012A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Call TI	
8513001RA	ACTIVE	CDIP	J	20	1	TBD	Call TI	Call TI	
JM38510/65755B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	
JM38510/65755BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	
M38510/65755B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	
M38510/65755BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	
SN54HCT244J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	
SN74HCT244DBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	
SN74HCT244DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244N	ACTIVE	PDIP	Ν	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74HCT244N3	OBSOLETE	PDIP	Ν	20		TBD	Call TI	Call TI	
SN74HCT244NE4	ACTIVE	PDIP	Ν	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	



25-Jan-2012

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Peak Temp <sup>(3)</sup>	Samples (Requires Login)
SN74HCT244NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWG4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	
SN74HCT244PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWTE4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74HCT244PWTG4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SNJ54HCT244FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	
SNJ54HCT244J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	

<sup>(1)</sup> 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.

### PACKAGE OPTION ADDENDUM



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**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 package die adhesive used between the die and package die adhesive used between the die adhesive used between the die adhesive use

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)

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

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#### OTHER QUALIFIED VERSIONS OF SN54HCT244, SN54HCT244-SP, SN74HCT244 :

Catalog: SN74HCT244, SN54HCT244

Automotive: SN74HCT244-Q1, SN74HCT244-Q1

• Enhanced Product: SN74HCT244-EP, SN74HCT244-EP

• Military: SN54HCT244

• Space: SN54HCT244-SP

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications
- Military QML certified for Military and Defense Applications
- Space Radiation tolerant, ceramic packaging and qualified for use in Space-based application

### PACKAGE MATERIALS INFORMATION

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#### TAPE AND REEL INFORMATION

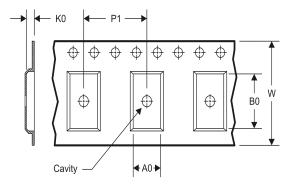
#### REEL DIMENSIONS

TEXAS INSTRUMENTS





#### TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
B0	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

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
SN74HCT244DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74HCT244DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74HCT244NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1
SN74HCT244PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74HCT244PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74HCT244PWT	TSSOP	PW	20	250	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

TEXAS INSTRUMENTS

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### PACKAGE MATERIALS INFORMATION

24-Nov-2011



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HCT244DBR	SSOP	DB	20	2000	346.0	346.0	33.0
SN74HCT244DWR	SOIC	DW	20	2000	346.0	346.0	41.0
SN74HCT244NSR	SO	NS	20	2000	346.0	346.0	41.0
SN74HCT244PWR	TSSOP	PW	20	2000	364.0	364.0	27.0
SN74HCT244PWR	TSSOP	PW	20	2000	346.0	346.0	33.0
SN74HCT244PWT	TSSOP	PW	20	250	346.0	346.0	33.0

J (R-GDIP-T\*\*) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



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-F20)

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 GDFP2-F20



LEADLESS CERAMIC CHIP CARRIER

FK (S-CQCC-N\*\*) 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. Falls within JEDEC MS-004



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

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



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



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

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-013 variation AC.



### LAND PATTERN DATA



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES:

A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.  $\beta$ . 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



### MECHANICAL DATA

### PLASTIC SMALL-OUTLINE PACKAGE

#### 0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 $\bigcirc$ Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS \*\* 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

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

**14-PINS SHOWN** 

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



### **MECHANICAL DATA**

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

### 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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