SCDS003O - NOVEMBER 1992 - REVISED JULY 2004

- 5- $\Omega$  Switch Connection Between Two Ports
- **TTL-Compatible Input Levels**

## description/ordering information

The 'CBT3383 devices provide ten bits of high-speed TTL-compatible bus switching or exchanging. The low on-state resistance of the switch allows connections to be made with minimal propagation delay.

The devices operate as a 10-bit bus switch or a 5-bit bus exchanger, which provides swapping of the A and B pairs of signals. The bus-exchange function is selected when BX is high. The switches are connected when BE is low.

#### SN54CBT3383 . . . JT OR W PACKAGE SN74CBT3383...DB, DBQ, DGV, DW, OR PW PACKAGE (TOP VIEW)

	_			
BE	1	$\bigcup$	24	v <sub>cc</sub>
1B1	2		23	5B2
1A1	3		22	5A2
1A2	4		21	5A1
1B2	5		20	5B1
2B1	6		19	] 4B2
2A1	7		18	] 4A2
2A2	8		17	] 4A1
2B2	9		16	4B1
3B1	[] 10	)	15	] 3B2
3A1	[] 11		14	] 3A2
GND	12	2	13	Вх

#### ORDERING INFORMATION

TA	PACKAGE	<u></u> †	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
	COIC DW	Tube	SN74CBT3383DW	CDT2202	
	SOIC - DW	Tape and reel	SN74CBT3383DWR	CBT3383	
	SSOP – DB	Tape and reel	SN74CBT3383DBR	CU383	
-40°C to 85°C	SSOP (QSOP) – DBQ	Tape and reel	SN74CBT3383DBQR	CBT3383	
	TOOOD DW	Tube	SN74CBT3383PW	011000	
	TSSOP – PW	Tape and reel	SN74CBT3383PWR	CU383	
	TVSOP – DGV	Tape and reel	SN74CBT3383DGVR	CU383	
EE°C to 12E°C	CDIP – JT	Tube	SNJ54CBT3383JT	SNJ54CBT3383JT	
−55°C to 125°C	CFP – W	Tube	SNJ54CBT3383W	SNJ54CBT3383W	

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

#### **FUNCTION TABLE**

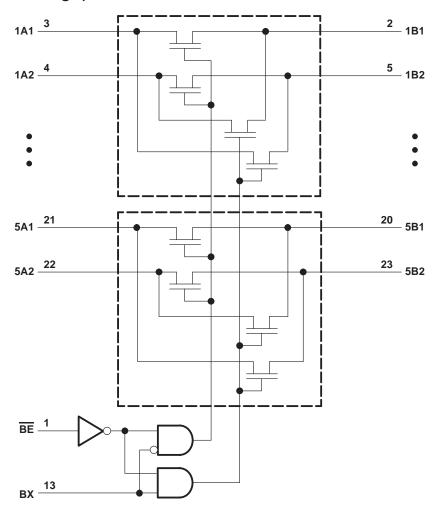
INP	UTS	INPUTS/OUTPUTS					
BE	вх	1A1-5A1	1A2-5A2				
L	L	1B1-5B1	1B2-5B2				
L	Н	1B2-5B2	1B1-5B1				
Н	Χ	Z	Z				



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.



#### logic diagram (positive logic)



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

Supply voltage range, V <sub>CC</sub> Input voltage range, V <sub>I</sub> (see Note 1)		
Continuous channel current		
Input clamp current, I <sub>IK</sub> (V <sub>I/O</sub> < 0)		
Package thermal impedance, θ <sub>JA</sub> (see Note 2):		
,	DBQ package	
	DGV package	86°C/W
	DW package	46°C/W
	PW package	88°C/W
Storage temperature range, T <sub>stg</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. The input and output negative-voltage ratings may be exceeded if the input and output clamp-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)

		SN54CB	T3383	SN74CB	T3383	
		MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level control input voltage	2		2		V
VIL	Low-level control input voltage		0.8		0.8	V
TA	Operating free-air temperature	-55	125	0	70	°C

NOTE 3: All unused control 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)

		_			SN	54CBT33	883	SN	74CBT33	83	
PAI	RAMETER	l T	EST CONDIT	IONS	MIN	TYP†	MAX	MIN	TYP†	MAX	UNIT
VIK		$V_{CC} = 4.5 \text{ V},$	$V_{CC} = 4.5 \text{ V}, \qquad I_{I} = -18 \text{ mA}$				-1.2			-1.2	V
l <sub>l</sub>		$V_{CC} = 5.5 \text{ V},$			±5			±1	μΑ		
Icc		$V_{CC} = 5.5 \text{ V},$	$I_{O} = 0$ ,	$V_I = V_{CC}$ or GND			50			50	μΑ
ΔI <sub>CC</sub> ‡	Control inputs	V <sub>CC</sub> = 5.5 V, On Other inputs at V			2.5			2.5	mA		
	On atract in most	V <sub>I</sub> = 3 V or 0	= 3 V or 0						3		
Ci	Control inputs	V <sub>I</sub> = 2.5 V		5						pF	
0		$V_0 = 3 \ V \ or \ 0,$	BE = V <sub>CC</sub>						6		
C <sub>io(OFF</sub>	=)	$V_0 = 2.5 V$ ,	BE = V <sub>CC</sub>				6				pF
			V 0	I <sub>I</sub> = 64 mA		5	9.2		5	7	
r <sub>on</sub> §	r <sub>on</sub> §	V <sub>CC</sub> = 4.5 V	V <sub>I</sub> = 0	I <sub>I</sub> = 30 mA					5	7	Ω
			V <sub>I</sub> = 2.4 V,	I <sub>I</sub> = 15 mA		10	17		10	15	

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

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

DADAMETED	FROM	ТО	SN54CE	T3383	SN74CB		
PARAMETER	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	UNIT
$t_{pd}\P$	A or B	B or A		1.5		0.25	ns
<sup>t</sup> pd	BX	A or B	1	10.2	1	9.2	ns
t <sub>en</sub>	BE	A or B	1	10.8	1	8.6	ns
<sup>t</sup> dis	BE	A or B	1	8.2	1	7.5	ns

The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).

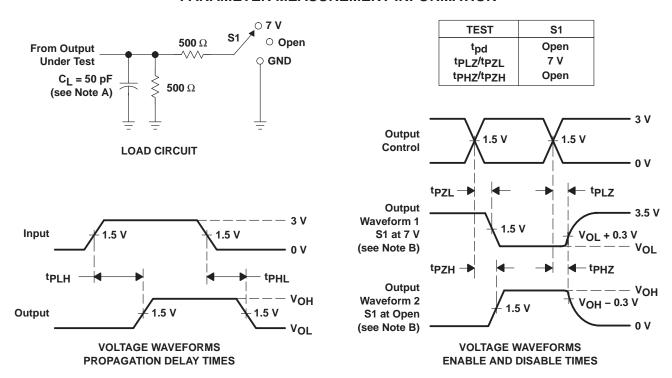


<sup>‡</sup>This is the increase in supply current for each input that is at the specified TTL voltage level, rather than V<sub>CC</sub> or GND.

<sup>§</sup> Measured by the voltage drop between the input terminal and the output terminal at the indicated current through the switch. On-state resistance is determined by the lowest voltage of the two (A or B) terminals.

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#### PARAMETER MEASUREMENT INFORMATION



NOTES: A. CL includes probe and jig 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. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  10 MHz,  $Z_Q = 50 \Omega$ ,  $t_f \leq$  2.5 ns.  $t_f \leq$  2.5 ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. tpLz and tpHz are the same as tdis.
- F. t<sub>PZL</sub> and t<sub>PZH</sub> are the same as t<sub>en</sub>.
- 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	Package Type	_	Pins	_	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
5962-9668801QKA	ACTIVE	CFP	W	24	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9668801QK A SNJ54CBT3383W	Samples
5962-9668801QLA	ACTIVE	CDIP	JT	24	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9668801QL A SNJ54CBT3383JT	Samples
SN74CBT3383DBLE	OBSOLETE	SSOP	DB	24		TBD	Call TI	Call TI	-40 to 85		
SN74CBT3383DBQR	ACTIVE	SSOP	DBQ	24	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	CBT3383	Samples
SN74CBT3383DBR	ACTIVE	SSOP	DB	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU383	Samples
SN74CBT3383DW	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CBT3383	Samples
SN74CBT3383DWR	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CBT3383	Samples
SN74CBT3383DWRG4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CBT3383	Samples
SN74CBT3383PW	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU383	Samples
SN74CBT3383PWLE	OBSOLETE	TSSOP	PW	24		TBD	Call TI	Call TI	-40 to 85		
SN74CBT3383PWR	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU383	Samples
SN74CBT3383PWRG4	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CU383	Samples
SNJ54CBT3383JT	ACTIVE	CDIP	JT	24	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9668801QL A SNJ54CBT3383JT	Samples
SNJ54CBT3383W	ACTIVE	CFP	W	24	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9668801QK A SNJ54CBT3383W	Samples

<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.

#### PACKAGE OPTION ADDENDUM



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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 SN54CBT3383, SN74CBT3383:

Catalog: SN74CBT3383

Military: SN54CBT3383

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product





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• Military - QML certified for Military and Defense Applications

## PACKAGE MATERIALS INFORMATION

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## TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
BO	Dimension designed to accommodate the component length
	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 difficultions 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
SN74CBT3383DBQR	SSOP	DBQ	24	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74CBT3383DBR	SSOP	DB	24	2000	330.0	16.4	8.2	8.8	2.5	12.0	16.0	Q1
SN74CBT3383DWR	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1
SN74CBT3383PWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1

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\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74CBT3383DBQR	SSOP	DBQ	24	2500	367.0	367.0	38.0
SN74CBT3383DBR	SSOP	DB	24	2000	367.0	367.0	38.0
SN74CBT3383DWR	SOIC	DW	24	2000	367.0	367.0	45.0
SN74CBT3383PWR	TSSOP	PW	24	2000	367.0	367.0	38.0

#### JT (R-GDIP-T\*\*)

#### 24 LEADS SHOWN

#### **CERAMIC DUAL-IN-LINE**

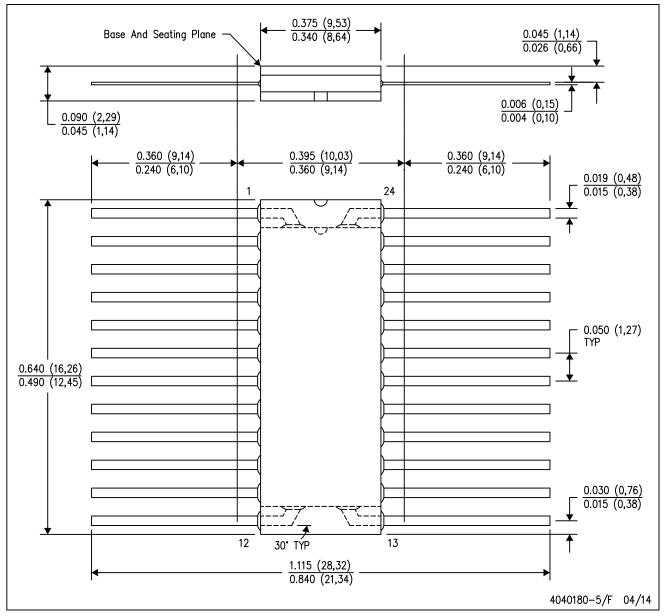


NOTES: A. All linear dimensions are in inches (millimeters).

- 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.
- E. Falls within MIL STD 1835 GDIP3-T24, GDIP4-T28, and JEDEC MO-058 AA, MO-058 AB

## W (R-GDFP-F24)

## CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- 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



DW (R-PDSO-G24)

## 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 AD.



DBQ (R-PDSO-G24)

## PLASTIC SMALL-OUTLINE PACKAGE

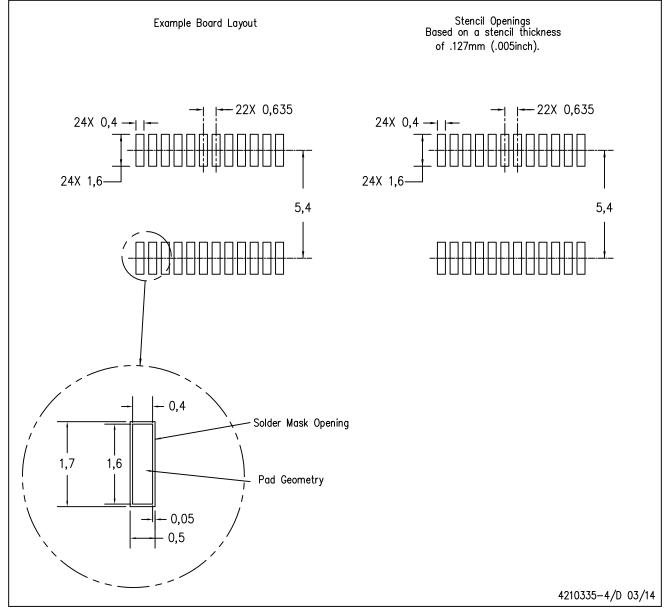


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15) per side.
- D. Falls within JEDEC MO-137 variation AE.



DBQ (R-PDSO-G24)

## PLASTIC SMALL OUTLINE PACKAGE



- 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



PW (R-PDSO-G24)

## PLASTIC SMALL OUTLINE

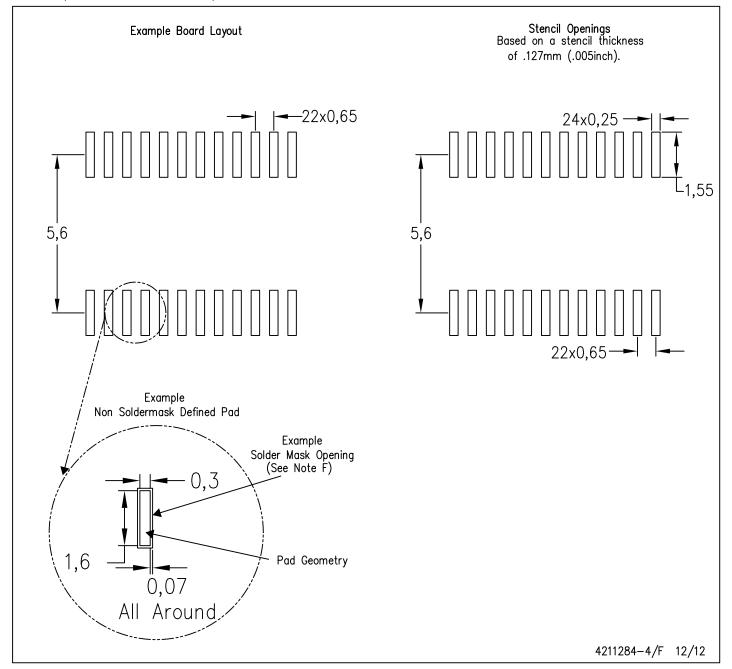


- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G24)

## 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 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 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

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