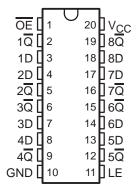
- State-of-the-Art *EPIC-IIB™* BiCMOS Design **Significantly Reduces Power Dissipation**
- Latch-Up Performance Exceeds 500 mA Per **JEDEC Standard JESD-17**
- Typical V_{OLP} (Output Ground Bounce) < 1 V at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$
- High-Drive Outputs (-32-mA I_{OH}, 64-mA I_{OL})
- **ESD Protection Exceeds 2000 V Per** MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model (C = 200 pF, R = 0)
- **Package Options Include Plastic** Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Plastic (N) and Ceramic (J) DIPs, and Ceramic Flat (W) Package

description

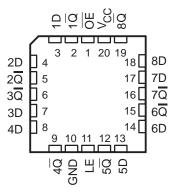
These octal transparent D-type latches with 3-state outputs are designed specifically for drivina highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

When the latch-enable (LE) input is high, the Q outputs follow the complements of the data (D) inputs. When LE is taken low, the \overline{Q} outputs are latched at the inverse of the levels at the D inputs.

SN54ABT533 . . . J OR W PACKAGE SN74ABT533A...DB, DW, N, OR PW PACKAGE (TOP VIEW)



SN54ABT533 . . . FK PACKAGE (TOP VIEW)



A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or a high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without need for interface or pullup components.

OE does not affect the internal operations of the latches. Previously stored data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

The SN54ABT533 is characterized for operation over the full military temperature range of -55°C to 125°C. The SN74ABT533A is characterized for operation from -40°C to 85°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.

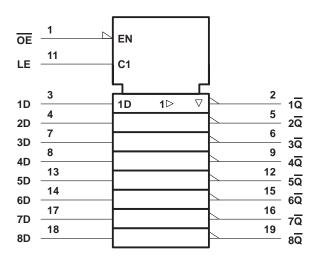
EPIC-IIB is a trademark of Texas Instruments Incorporated



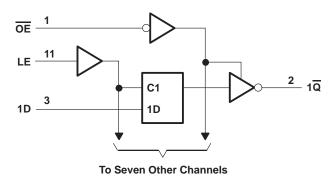
FUNCTION TABLE (each latch)

	INPUTS		OUTPUT
OE	LE	D	Q
L	Н	Н	L
L	Н	L	Н
L	L	Χ	\overline{Q}_0
Н	X	X	Z

logic symbol†



logic diagram (positive logic)



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

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input voltage range, V _I (see Note 1)		0.5 V to 7 V
Voltage range applied to any output in the high	or power-off state, VO	
Current into any output in the low state, IO: SN	54ABT533	96 mA
		128 mA
Input clamp current, I _{IK} (V _I < 0)		–18 mA
Output clamp current, I_{OK} ($V_O < 0$)		
Package thermal impedance, θ _{JA} (see Note 2):	DB package	115°C/W
371		97°C/W
	N package	67°C/W
	PW package	128°C/W
Storage temperature range, T _{stq}		–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 negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.



[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

^{2.} The package thermal impedance is calculated in accordance with EIA/JEDEC Std JESD51, except for through-hole packages, which use a trace length of zero.

recommended operating conditions (see Note 3)

		SN54A	BT533	SN74AB	T533A	UNIT
		MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2		2		V
VIL	Low-level input voltage		0.8		0.8	V
VI	Input voltage	0	VCC	0	VCC	V
ІОН	High-level output current		-24		-32	mA
lOL	Low-level output current		48		64	mA
Δt/Δν	Input transition rise or fall rate		10		10	ns/V
TA	Operating free-air temperature	– 55	125	-40	85	°C

NOTE 3: Unused inputs must be held high or low to prevent them from floating.

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

DADAMETER		TEST CONDITIO	anc.	T	_A = 25°C	;	SN54A	BT533	SN74AB	T533A	UNIT
PARAMETER		TEST CONDITIO	ONS	MIN	TYP [†]	MAX	MIN	MAX	MIN	MAX	UNII
VIK	$V_{CC} = 4.5 V$,	$V_{CC} = 4.5 \text{ V}, \qquad I_{I} = -18 \text{ mA}$				-1.2		-1.2		-1.2	V
	$V_{CC} = 4.5 V$,	$I_{OH} = -3 \text{ mA}$		2.5			2.5		2.5		
	V _{CC} = 5 V,	$I_{OH} = -3 \text{ mA}$		3			3		3		V
VOH	V _{CC} = 4.5 V	I _{OH} = -24 mA		2			2				V
	VCC = 4.5 V	$I_{OH} = -32 \text{ mA}$		2*					2		
Vai	V00 - 4 5 V	I _{OL} = 48 mA			0.55		0.55			V	
VOL	V _{CC} = 4.5 V					0.55*				0.55	V
V _{hys}					100						mV
ΙΙ	$V_{CC} = 5.5 V$,	$V_I = V_{CC}$ or GI	ND			±1		±1		±1	μА
lozh	$V_{CC} = 5.5 V$,				10		10		10	μА	
lozL	V _{CC} = 5.5 V,	V _O = 0.5 V				-10		-10		-10	μА
l _{off}	$V_{CC} = 0$,	V _I or V _O ≤ 4.5	V			±150				±150	μΑ
ICEX	$V_{CC} = 5.5 V$,	V _O = 5.5 V	Outputs high			50		50		50	μА
IO [‡]	$V_{CC} = 5.5 V$,	V _O = 2.5 V		-50	-140	-180	-50	-180	-50	-180	mA
		_	Outputs high		1	250		250		250	μА
Icc	$V_{CC} = 5.5 \text{ V}, \text{ I}_{C}$ $V_{I} = V_{CC} \text{ or } G$		Outputs low		24	30		30		30	mA
	1 - 400 01 01	ND	Outputs disabled		0.5	250		250		250	μА
	V _{CC} = 5.5 V,		Outputs high			1.5		1.5		1.5	
ΔlCC§	One input at 3.	one input at 3.4 V,				1.5		1.5		1.5	mA
	Other inputs at	V _{CC} or GND	Outputs disabled			1.5		1.5		1.5	
C _i	V _I = 2.5 V or 0.5 V				3.5						pF
Co	$V_0 = 2.5 \text{ V or } 0$	0.5 V			6.5						рF

^{*} On products compliant to MIL-PRF-38535, this parameter does not apply.



[†] All typical values are at $V_{CC} = 5 \text{ V}$.

[‡] Not more than one output should be tested at a time, and the duration of the test should not exceed one second.

[§] This is the increase in supply current for each input that is at the specified TTL voltage level rather than V_{CC} or GND.

SN54ABT533, SN74ABT533A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS186D - JANUARY 1991 - REVISED JANUARY 1997

timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

				SN54A	BT533		
			V _{CC} =	= 5 V, 25°C	MIN	MAX	UNIT
			MIN	MAX			
t _W	Pulse duration, LE high		3.3		3.3		ns
t _{su}	Setup time, data before LE↓	High or low	2.1		2.1		ns
t _h	Hold time, data after LE \downarrow	High or low	1.5		1.5		ns

timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

			SN74ABT533A					
			V _{CC} :	= 5 V, 25°C	MIN	MAX	UNIT	
			MIN	MAX				
t _W	Pulse duration, LE high		3.3		3.3		ns	
t _{su}	Setup time, data before LE↓	High or low	2.1		2.1		ns	
th	Hold time, data after LE↓	High or low	2.1		2.1		ns	

switching characteristics over recommended ranges of supply voltage and operating free-air temperature, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

				SN	54ABT5	33		
PARAMETER	FROM (INPUT)	TO (OUTPUT)	۷ ₍ ۲ _/	CC = 5 V \(\frac{1}{2} = 25°C	/, ;	MIN	MAX	UNIT
				TYP	MAX			
^t PLH	D	Q	1.9	4.2	5.4	1.9	6.7	ns
t _{PHL}	В	Q	3.1	4.9	6.3	3.1	6.9	115
t _{PLH}	LE	Q	2.7	4.9	6.2	2.7	7.6	ns
^t PHL	LE	Q	3.5	5.4	6.8	3.5	7.5	115
^t PZH	ŌĒ	Q	1.6	3.7	4.8	1.6	5.8	ns
t _{PZL}	OE	Q	2.4	4.2	6.2	2.4	6.9	115
^t PHZ	ŌĒ	Q	2.8	5.1	6.2	2.8	7.2	nc
t _{PLZ}	OE .	Q	2	4.1	6	2	6.9	ns

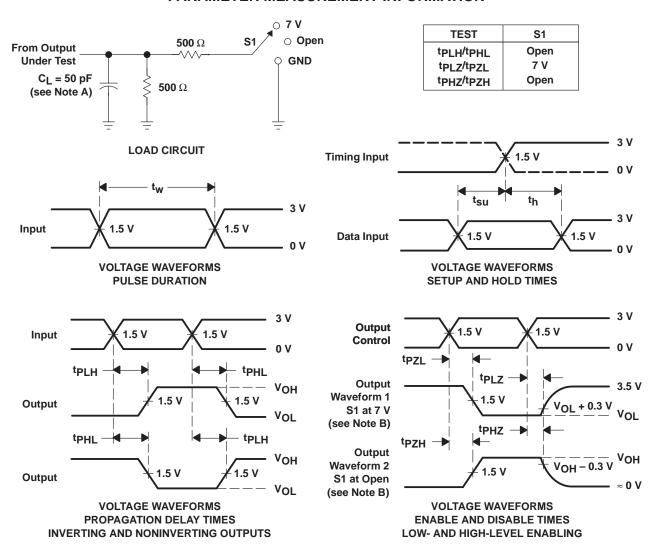
SN54ABT533, SN74ABT533A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS186D - JANUARY 1991 - REVISED JANUARY 1997

switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V ₍	CC = 5 V 4 = 25°C	/, ;	MIN	MAX	UNIT
			MIN	TYP	MAX			
^t PLH	D	Q	1.7	4.2	5.4	1.7	6.4	ns
^t PHL	В	Q	2.6	4.9	6.3	2.6	6.6	115
^t PLH	LE	Q	2.7	4.9	6.2	2.7	7.3	nc
^t PHL	LE	Q	3.5	5.4	6.8	3.5	7.3	ns
^t PZH	ŌĒ	Q	1.6	3.7	4.8	1.6	5.7	ns
t _{PZL}	OE .	Q	2.4	4.2	6.2	2.4	6.7	115
^t PHZ	ŌĒ	Q	1.6	5.1	6.2	1.6	6.9	ns
tPLZ	J ∪E		2	4.1	6	2	6.5	

PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L 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 Ω , 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.

Figure 1. Load Circuit and Voltage Waveforms





5-Sep-2011

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
5962-9584301Q2A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Call TI	
5962-9584301QRA	ACTIVE	CDIP	J	20	1	TBD	Call TI	Call TI	
5962-9584301QSA	ACTIVE	CFP	W	20	1	TBD	Call TI	Call TI	
SN74ABT533ADBLE	OBSOLETE	SSOP	DB	20		TBD	Call TI	Call TI	
SN74ABT533ADBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533ADBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533ADBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533ADW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533ADWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533ADWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533AN	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74ABT533ANE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74ABT533APWLE	OBSOLETE	TSSOP	PW	20		TBD	Call TI	Call TI	
SN74ABT533APWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533APWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT533APWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SNJ54ABT533FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	
SNJ54ABT533J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	
SNJ54ABT533W	ACTIVE	CFP	W	20	1	TBD	Call TI	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.



PACKAGE OPTION ADDENDUM

5-Sep-2011

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): Tl'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

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.

Important Information and Disclaimer:The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF SN54ABT533:

Catalog: SN74ABT533

NOTE: Qualified Version Definitions:

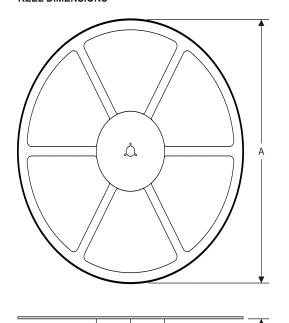
Catalog - TI's standard catalog product

PACKAGE MATERIALS INFORMATION

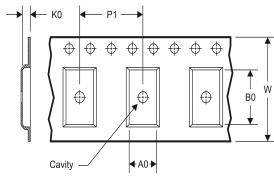
www.ti.com 14-Jul-2012

TAPE AND REEL INFORMATION

REEL DIMENSIONS







A0	Dimension designed to accommodate the component width
В0	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

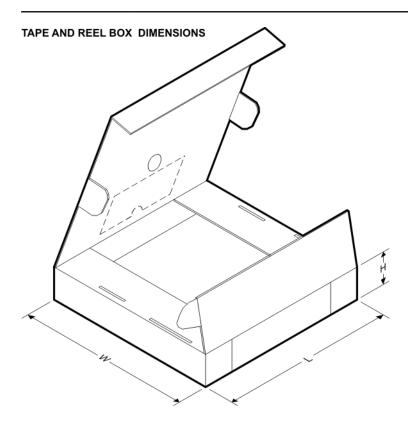
TAPE AND REEL INFORMATION

*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
SN74ABT533ADBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT533APWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

www.ti.com 14-Jul-2012



*All dimensions are nominal

Device	Package Type Package Drawing F		Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT533ADBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74ABT533APWR	TSSOP	PW	20	2000	367.0	367.0	38.0

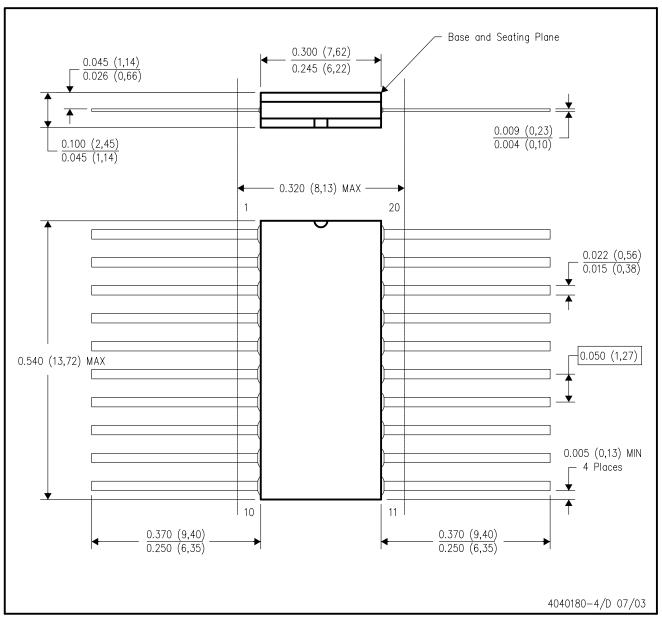
14 LEADS SHOWN



- 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-F20)

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-F20



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.



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.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE

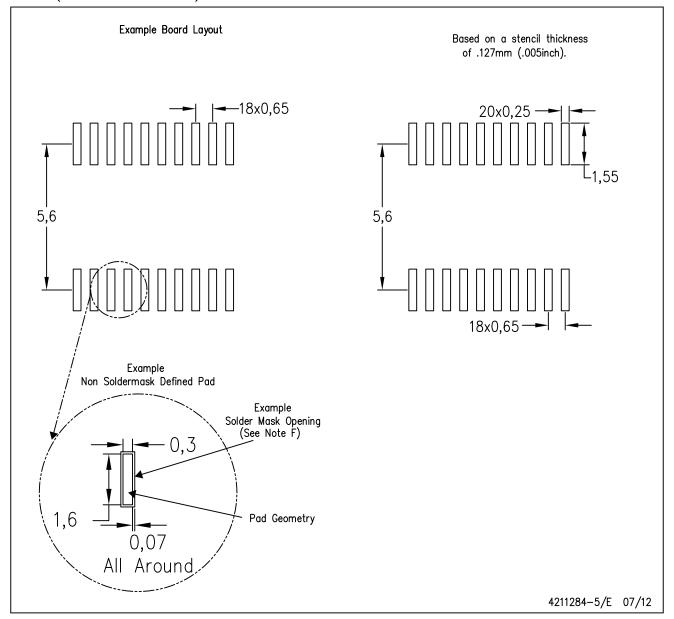


- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body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



PW (R-PDSO-G20)

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

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46C and to discontinue any product or service per JESD48B. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have *not* been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components which meet ISO/TS16949 requirements, mainly for automotive use. Components which have not been so designated are neither designed nor intended for automotive use; and TI will not be responsible for any failure of such components to meet such requirements.

roducts		Applications
	ti aaaa/adia	A

Pr

Audio Automotive and Transportation www.ti.com/automotive www.ti.com/audio www.ti.com/communications **Amplifiers** amplifier.ti.com Communications and Telecom **Data Converters** dataconverter.ti.com Computers and Peripherals www.ti.com/computers **DLP® Products** Consumer Electronics www.ti.com/consumer-apps www.dlp.com DSP dsp.ti.com **Energy and Lighting** www.ti.com/energy Clocks and Timers www.ti.com/clocks Industrial www.ti.com/industrial Interface interface.ti.com Medical www.ti.com/medical Logic logic.ti.com Security www.ti.com/security

Power Mgmt power.ti.com Space, Avionics and Defense www.ti.com/space-avionics-defense

Microcontrollers microcontroller.ti.com Video and Imaging www.ti.com/video

OMAP Mobile Processors www.ti.com/omap TI E2E Community e2e.ti.com

Wireless Connectivity <u>www.ti.com/wirelessconnectivity</u>

www.ti-rfid.com



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.