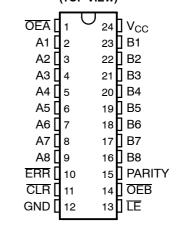
- State-of-the-Art *EPIC-IIB™* BiCMOS Design **Significantly Reduces Power Dissipation**
- **ESD Protection Exceeds 2000 V Per** MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model (C = 200 pF, R = 0)
- Latch-Up Performance Exceeds 500 mA Per JESD 17
- Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_{Δ} = 25°C
- High-Drive Outputs (-32-mA IOH, 64-mA IOL)
- **High-Impedance State During Power Up** and Power Down
- **Parity-Error Flag With Parity** Generator/Checker
- Latch for Storage of Parity-Error Flag
- **Package Options Include Plastic** Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Ceramic Flat (W) Package, and Plastic (NT) and Ceramic (JT) DIPs

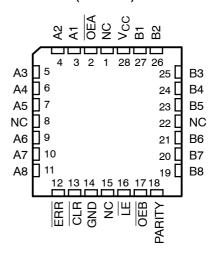
description

The 'ABT853 8-bit to 9-bit parity transceivers are designed for communication between data buses. When data is transmitted from the A bus to the B bus, a parity bit is generated. When data is transmitted from the B bus to the A bus with its corresponding parity bit, the open-collector parity-error (ERR) output indicates whether or not an error in the B data has occurred. The output-enable (OEA and OEB) inputs can be used to disable the device so that the buses are effectively isolated. The 'ABT853 transceivers provide true data at their outputs.

SN54ABT853 . . . JT OR W PACKAGE SN74ABT853 . . . DB. DW. NT. OR PW PACKAGE (TOP VIEW)



SN54ABT853...FK PACKAGE (TOP VIEW)



NC - No internal connection

A 9-bit parity generator/checker generates a parity-odd (PARITY) output and monitors the parity of the I/O ports with the ERR flag. The parity-error output can be passed, sampled, stored, or cleared from the latch using the latch-enable (LE) and clear (CLR) control inputs. When both OEA and OEB are low, data is transferred from the A bus to the B bus and inverted parity is generated. Inverted parity is a forced error condition that gives the designer more system diagnostic capability.

When V_{CC} is between 0 and 2.1 V, the device is in the high-impedance state during power up or power down. However, to ensure the high-impedance state above 2.1 V, \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.



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



description (continued)

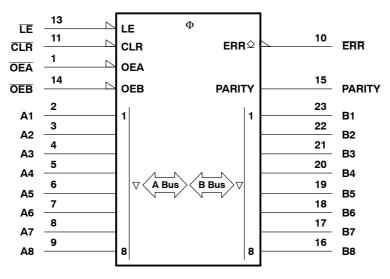
The SN54ABT853 is characterized for operation over the full military temperature range of –55°C to 125°C. The SN74ABT853 is characterized for operation from –40°C to 85°C.

FUNCTION TABLE

			INPUT	3			OUTPU	ITS AND I/O	s	
OEB	OEA	CLR	LE	$\begin{array}{c} \textbf{Ai} \\ \Sigma \ \textbf{OF} \ \textbf{H} \end{array}$	Bi [†] Σ OF H	Α	В	PARITY	ERR‡	FUNCTION
L	Н	Х	X	Odd Even	NA	NA	Α	L H	NA	A data to B bus and generate parity
Н		Х	L	NA	Odd	В	NA	NA	Н	B data to A bus and
П	L	^	L	INA	Even	Ь	INA	NA	L	check parity
Н	L	Н	Н	NA	Х	Χ	NA	NA	NC	Store error flag
Х	Х	L	Н	Χ	Х	Χ	NA	NA	Н	Clear error flag register
		Н	Н	Х					NC	
Н		L	Н	Χ	X	Z	Z	Z	Н	Isolation [§]
"	Н	X	L	L Odd	Χ	_	Z	Z	Н	(parity check)
		X	L	H Even					L	
		V	V	Odd	NIA	NIA	^	Н	NIA	A data to B bus and
L	L	Х	Х	Even	NA	NA	Α	L	NA	generate inverted parity

NA = not applicable, NC = no change, X = don't care

logic symbol[¶]



 $[\]P$ This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for the DB, DW, JT, NT, PW, and W packages.

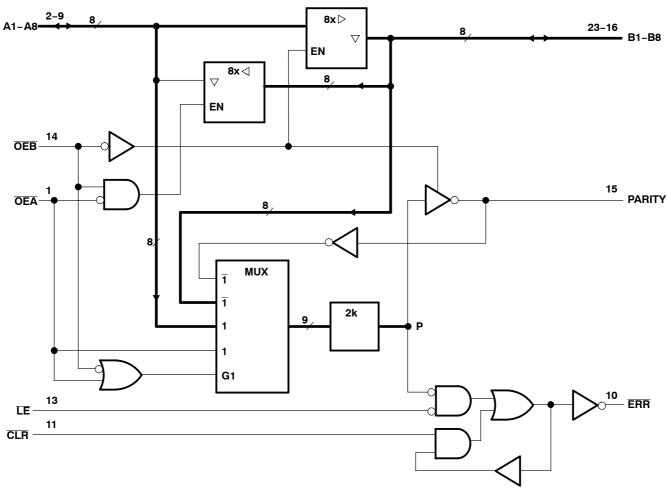


[†] Summation of high-level inputs includes PARITY along with Bi inputs.

 $^{^{\}ddagger}$ Output states shown assume $\overline{\text{ERR}}$ was previously high.

[§] In this mode, ERR (when clocked) shows inverted parity of the A bus.

logic diagram (positive logic)



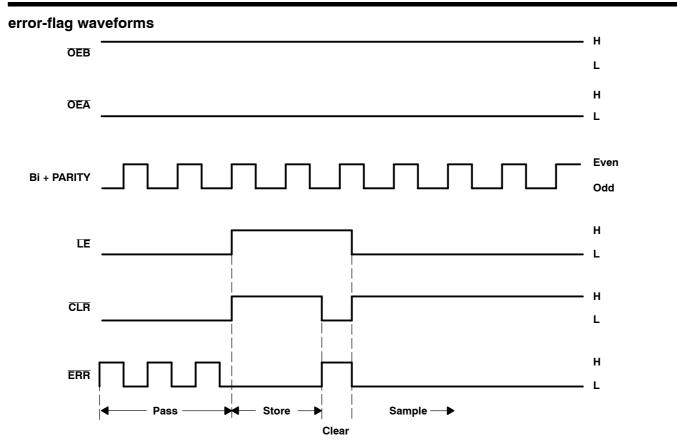
Pin numbers shown are for the DB, DW, JT, NT, PW, and W packages.

ERROR-FLAG FUNCTION TABLE

INPL	JTS	INTERNAL TO DEVICE	OUTPUT PRESTATE	OUTPUT ERR	FUNCTION
CLR	LE	POINT P	ERR _{N-1} †	ENN	
		L	V	L	Dana
<u> </u>	L	Н	Х	Н	Pass
		L	Х	L	
Н	L	X	L L		Sample
		Н	Н	Н	
Ĺ	Н	Х	Х	Н	Clear
Н	Н	X	L	L	Store
11	11	^	Н	Н	Sidle

[†] The state of ERR before changes at CLR, LE, or point P





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

Supply voltage range, V _{CC}		
Input voltage range, V _I : Except I/O ports (see N	Note 1)	–0.5 V to 7 V
Voltage range applied to any output in the high	or power-off state, V _O	
Current into any output in the low state, Io: SN	54ABT853	96 mA
SN	74ABT853	128 mA
Input clamp current, I _{IK} (V _I < 0)		–18 mA
Output clamp current, I _{OK} (V _O < 0)		–50 mA
Package thermal impedance, θ_{JA} (see Note 2):	: DB package	104°C/W
	DW package	81°C/W
	N package	67°C/W
	PW package	120°C/W
Storage temperature range, T _{stg}		–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.

2. The package thermal impedance is calculated in accordance with JESD 51, except for through-hole packages, which use a trace length of zero.



SN54ABT853, SN74ABT853 8-BIT TO 9-BIT PARITY BUS TRANSCEIVERS

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recommended operating conditions (see Note 3)

			SN54AI	BT853	SN74AI	BT853	
			MIN	MAX	MIN	MAX	UNIT
V _{CC}	Supply voltage		4.5	5.5	4.5	5.5	V
V _{IH}	High-level input voltage		2		2		V
V _{IL}	Low-level input voltage			0.8		8.0	V
V _I	Input voltage	_	0	V _{CC}	0	V_{CC}	V
V _{OH}	High-level output voltage	ERR		5.5		5.5	V
I _{OH}	High-level output current	Except ERR		-24		-32	mA
I _{OL}	Low-level output current			48		64	mA
Δt/Δν	Input transition rise or fall rate	Outputs enabled		10		10	ns/V
$\Delta t/\Delta V_{CC}$	Power-up ramp rate		200		200		μs/V
T _A	Operating free-air temperature		-55	125	-40	85	°C

NOTE 3: Unused pins (input or I/O) must be held high or low to prevent them from floating.

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

		T=0T 00\U	NITION O	Т	A = 25°(2	SN54A	BT853	SN74A	BT853	
PAH	RAMETER	TEST CONI	DITIONS	MIN	TYP [†]	MAX	MIN	MAX	MIN	MAX	UNIT
V _{IK}		V _{CC} = 4.5 V,	I _I = -18 mA			-1.2		-1.2		-1.2	V
		V _{CC} = 4.5 V,	$I_{OH} = -3 \text{ mA}$	2.5			2.5		2.5		
.,	All outputs	V _{CC} = 5 V,	$I_{OH} = -3 \text{ mA}$	3			3		3		V
V _{OH}	except ERR	V 45V	$I_{OH} = -24 \text{ mA}$	2			2				V
		V _{CC} = 4.5 V	$I_{OH} = -32 \text{ mA}$	2*					2		
.,		V 45V	I _{OL} = 24 mA			0.55		0.55			V
V_{OL}		V _{CC} = 4.5 V	I _{OL} = 64 mA			0.55*				0.55	V
V _{hys}					100						mV
I _{OH}	ERR	$V_{CC} = 4.5 \text{ V},$	V _{OH} = 5.5 V			50		50		50	μΑ
	Control inputs	V 55V	V V OND			±1		±1		±1	
l t _l	A or B ports	$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GND			±100		±100		±100	μ A
I _{OZPU} ‡		$V_{CC} = 0 \text{ to } 2.1 \text{ V},$ $V_{O} = 0.5 \text{ V to } 2.7 \text{ V}, \overline{OE}$	A or OEB = X			±50		±50		±50	μΑ
I _{OZPD} ‡		$V_{CC} = 2.1 \text{ V to 0},$ $V_{O} = 0.5 \text{ V to 2.7 V, } \overline{OE}$	A or OEB = X			±50		±50		±50	μΑ
I _{OZH} §		V _{CC} = 5.5 V, For control output under test V _{IH} = V _O = 2.7 V				10		10		10	μА
I _{OZL} §		V _{CC} = 5.5 V, For control output under test V _{IH} = V _O = 0.5 V				-10		-10		-10	μА
I _{off}		V _{CC} = 0,	V_I or $V_O \le 4.5 \text{ V}$			±100				±100	μΑ
I _{CEX}		V _{CC} = 5.5 V, V _O = 5.5 V	Outputs high			50		50		50	μΑ
lo [¶]		V _{CC} = 5.5 V,	V _O = 2.5 V	-50	-100	-200 [#]	-50	-200 [#]	-50	-200#	mA
		V _{CC} = 5.5 V,	Outputs high		1	250		450		250	μΑ
I _{CC}	A or B ports	$I_0 = 0$,	Outputs low		24	38		38		38	mA
		$V_I = V_{CC}$ or GND	Outputs disabled		0.5	250		450		250	μΑ
	Data in the	V _{CC} = 5.5 V, One input at 3.4 V,	Outputs enabled			1.5		1.5		1.5	mA
ΔI_{CC}	Data inputs	Other inputs at V _{CC} or GND	Outputs disabled			50		50		50	μА
	Control inputs	V_{CC} = 5.5 V, One input of Other inputs at V_{CC} or C				1.5		1.5		1.5	mA
C _i	Control inputs	V _I = 2.5 V or 0.5 V			4.5						pF
C _{io}	A or B ports	V _O = 2.5 V or 0.5 V			10.5						pF

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



 $^{^{\}dagger}$ All typical values are at V_{CC} = 5 V.

[‡] This parameter is characterized, but not production tested.

 $[\]S$ The parameters $I_{\mbox{\scriptsize OZH}}$ and $I_{\mbox{\scriptsize OZL}}$ include the input leakage current.

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

[#] This data sheet limit can vary among suppliers.

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

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

			V _{CC} = T _A = 2	: 5 V, 25°C	SN54A	BT853	SN74A	BT853	UNIT	
			MIN	MAX	MIN	MAX	MIN	MAX		
	E high or low		3.5		3.5		3.5			
t _w	Pulse duration	CLR low	4		4		4		ns	
	Octobrie	B or PARITY before LE ↓			10.2		9.4 [†]			
t _{su}	Setup time	CLR before LE↓	2		2		2		ns	
	Hold time	B or PARITY after LE↓			0		0		20	
t _h	HOIU IIIIE	CLR after LE↓	3		3	3			ns	

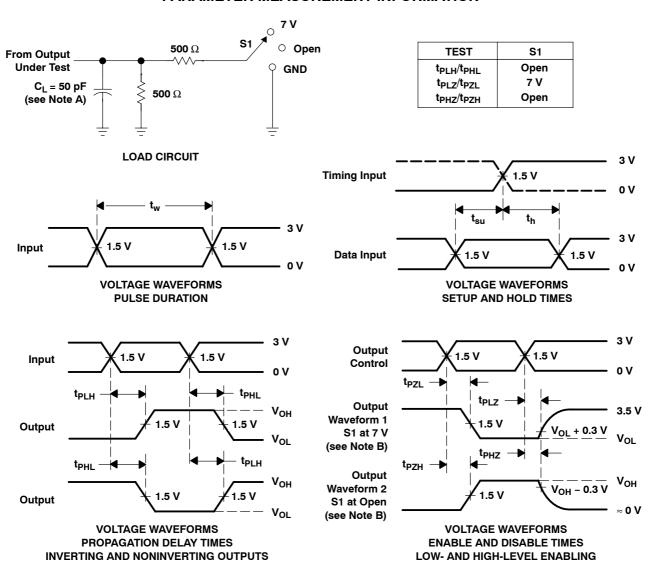
[†] This data sheet limit can vary among suppliers.

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

PARAMETER	FROM	TO		_{CC} = 5 V, _A = 25°C	SN54A	BT853	SN74A	UNIT		
	(INPUT)	(OUTPUT)	MIN	TYP MAX	MIN	MAX	MIN	MAX		
t _{PLH}	A D	D 4	1.2	4.8	1.2	6.4	1.2	5.3		
t _{PHL}	A or B	B or A	1	4.8 [†]	1	5.4	1	5.3 [†]	ns	
t _{PLH}		DADITY	2.1	9.5	2.1	13.3	2.1	11.2		
t _{PHL}	A	PARITY	2.5	9.7	2.5	11	2.5	11	ns	
t _{PLH}	OFA OFD	PARITY	1.8	8.5	1.8	13.6	1.8	10.5		
t _{PHL}	OEA or OEB	PARITY	2.3	8.6	2.3	11.7	2.3	10	ns	
t _{PLH}	CLR	ERR	1	5.5	1	6.3	1	6.2	ns	
t _{PLH}	ī.e	FDD	1.8	5.1	1.8	6.1	1.8	6		
t _{PHL}	TE	ERR	1†	5.8	1†	6.7	1	6.6	ns	
t _{PLH}	B or PARITY	ERR	2	10.1	2	11.8	2	11.7	ns	
t _{PHL}	BUIFANIT	ENN	2.2 [†]	11.5	2.2†	12.9	2.2 [†]	12.8	115	
t _{PZH}		A D DADITY	1	5.8 [†]	1	8.8	1	6.7 [†]		
t _{PZL}	OEA or OEB	A or B or PARITY	1.5 [†]	5.8	1.5 [†]	9.8	1.5 [†]	6.7	ns	
t _{PHZ}	OEA or OEB	A or B or PARITY	1.8 [†]	7.3	1.8 [†]	9.5	1.8 [†]	7.9		
t _{PLZ}	OEA OF OEB	AUIDUIPARIIT	2.1 [†]	7.2	2.1 [†]	8.2	2.1 [†]	8.1	- ns	

[†] This data sheet limit can vary among suppliers.

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, $Z_O = 50 \Omega$, $t_r \leq$ 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)
5962-9674601Q3A	ACTIVE	LCCC	FK	28	1	TBD	Call TI	Call TI	
5962-9674601QKA	ACTIVE	CFP	W	24	1	TBD	Call TI	Call TI	
5962-9674601QLA	ACTIVE	CDIP	JT	24	1	TBD	Call TI	Call TI	
SN74ABT853DBLE	OBSOLETE	SSOP	DB	24		TBD	Call TI	Call TI	
SN74ABT853DW	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853DWE4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853DWG4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853DWR	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853DWRE4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853DWRG4	ACTIVE	SOIC	DW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74ABT853NT	ACTIVE	PDIP	NT	24	15	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74ABT853NTE4	ACTIVE	PDIP	NT	24	15	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74ABT853PWLE	OBSOLETE	TSSOP	PW	24		TBD	Call TI	Call TI	
SNJ54ABT853FK	ACTIVE	LCCC	FK	28	1	TBD	POST-PLATE	N / A for Pkg Type	
SNJ54ABT853JT	ACTIVE	CDIP	JT	24	1	TBD	A42	N / A for Pkg Type	
SNJ54ABT853W	ACTIVE	CFP	W	24	1	TBD	A42	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.

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.

TBD: The Pb-Free/Green conversion plan has not been defined.

⁽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.



PACKAGE OPTION ADDENDUM

5-Sep-2011

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.

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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 SN54ABT853, SN74ABT853:

Catalog: SN74ABT853

Military: SN54ABT853

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

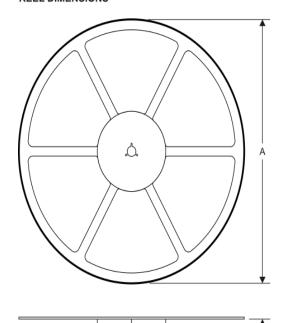
Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

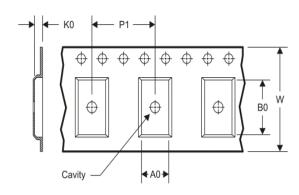
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TAPE AND REEL INFORMATION

REEL DIMENSIONS



TAPE 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

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
SN74ABT853DWR	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1

PACKAGE MATERIALS INFORMATION

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT853DWR	SOIC	DW	24	2000	367.0	367.0	45.0

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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9674601Q3A	ACTIVE	LCCC	FK	28	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9674601Q3A SNJ54ABT 853FK	Samples
SN74ABT853DW	ACTIVE	SOIC	DW	24	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT853	Samples
SN74ABT853DWR	ACTIVE	SOIC	DW	24	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT853	Samples
SNJ54ABT853FK	ACTIVE	LCCC	FK	28	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9674601Q3A SNJ54ABT 853FK	Samples

(1) The marketing status values are defined as follows:

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(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (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 finish/Ball material Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

PACKAGE OPTION ADDENDUM

www.ti.com 10-Jun-2022

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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 SN54ABT853, SN74ABT853:

Catalog: SN74ABT853

Military: SN54ABT853

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

• Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





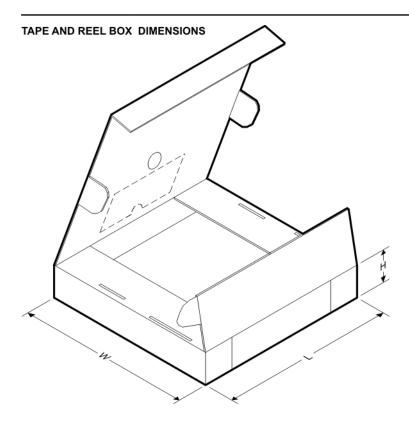
A0	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ABT853DWR	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT853DWR	SOIC	DW	24	2000	350.0	350.0	43.0

PACKAGE MATERIALS INFORMATION

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TUBE



Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SN74ABT853DW	DW	SOIC	24	25	506.98	12.7	4826	6.6

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



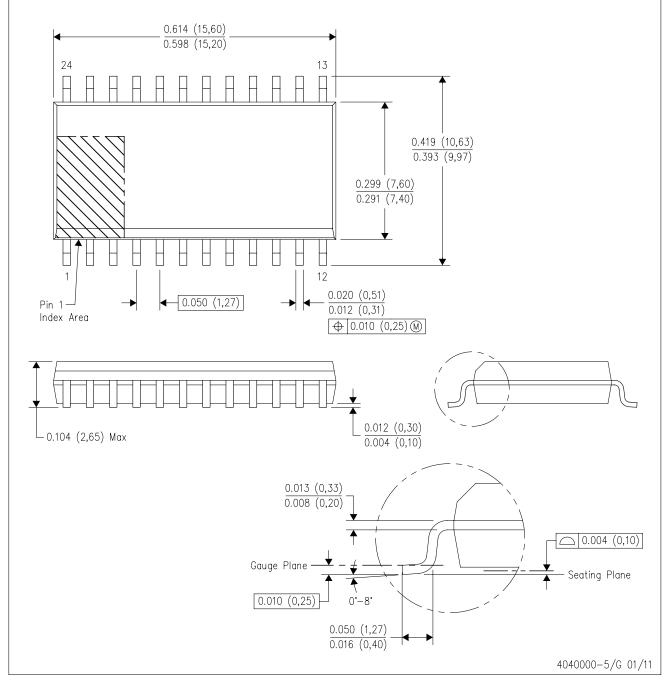
NOTES:

- 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



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



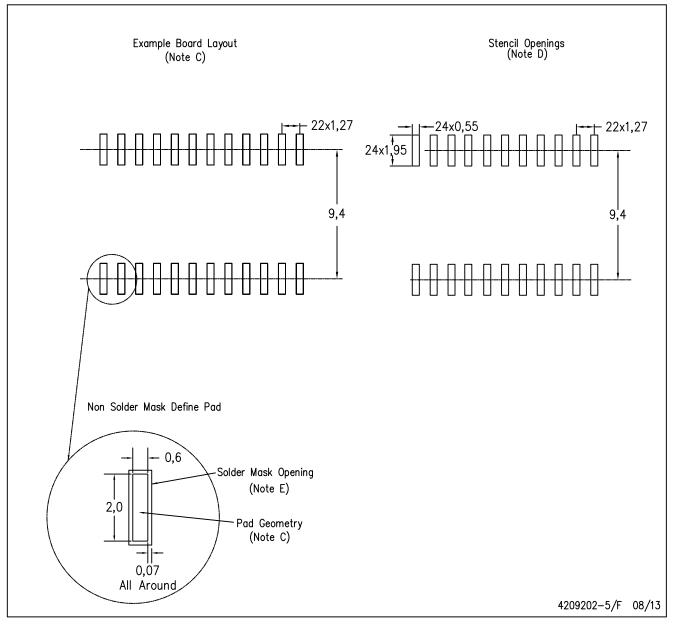
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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.



DW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



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.



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