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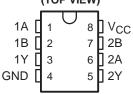
#### PERIPHERAL DRIVERS FOR HIGH-CURRENT SWITCHING AT VERY HIGH SPEEDS

- Characterized for Use to 300 mA
- High-Voltage Outputs
- No Output Latch-Up at 20 V (After Conducting 300 mA)
- High-Speed Switching
- Circuit Flexibility for Varied Applications
- TTL-Compatible Diode-Clamped Inputs
- Standard Supply Voltages
- Plastic DIP (P) With Copper Lead Frame Provides Cooler Operation and Improved Reliability
- Package Options Include Plastic Small-Outline Packages, Ceramic Chip Carriers, and Standard Plastic and Ceramic 300-mil DIPs

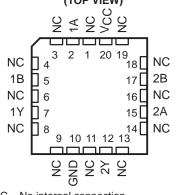
DEVICE	LOGIC OF COMPLETE CIRCUIT	PACKAGES							
SN55451B	AND	FK, JG							
SN55452B	NAND	JG							
SN55453B	OR	FK, JG							
SN55454B	NOR	JG							
SN75451B	AND	D, P							
SN75452B	NAND	D, P							
SN75453B	OR	D, P							
SN75454B	NOR	D, P							

#### SUMMARY OF DEVICES

SN55451B, SN55452B, SN55453B, SN55454B . . . JG PACKAGE SN75451B, SN75452B, SN75453B, SN75454B . . . D OR P PACKAGE (TOP VIEW)







NC - No internal connection

#### description

The SN55451B through SN55454B and SN75451B through SN75454B are dual peripheral drivers designed for use in systems that employ TTL logic. This family is functionally interchangeable with and replaces the SN75450 family and the SN75450A family devices manufactured previously. The speed of the devices is equal to that of the SN75450 family, and the parts are designed to ensure freedom from latch-up. Diode-clamped inputs simplify circuit design. Typical applications include high-speed logic buffers, power drivers, relay drivers, lamp drivers, MOS drivers, line drivers, and memory drivers.

The SN55451B/SN75451B, SN55452B/SN75452B, SN55453B/SN75453B, and SN55454B/SN75454B are dual peripheral AND, NAND, OR, and NOR drivers, respectively (assuming positive logic), with the output of the logic gates internally connected to the bases of the npn output transistors.

The SN55' drivers are characterized for operation over the full military range of  $-55^{\circ}$ C to  $125^{\circ}$ C. The SN75' drivers are characterized for operation from  $0^{\circ}$ C to  $70^{\circ}$ C.



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

		SN55'	SN75'	UNIT	
Supply voltage, V <sub>CC</sub> (see Note 1)		7	7	V	
Input voltage, VI		5.5	5.5	V	
Inter-emitter voltage (see Note 2)	5.5	5.5	V		
Off-state output voltage, VO	30	30	V		
Continuous collector or output current, IOK (see Note 3)	400	400	mA		
Peak collector or output current, II (t_W $\leq$ 10 ms, duty cycle $\leq$ 50%, s	ee Note 4)	500	500	mA	
Continuous total power dissipation		See Diss	See Dissipation Rating Tab		
Operating free-air temperature range, TA		-55 to 125	0 to 70	°C	
Storage temperature range, T <sub>Stg</sub>		-65 to 150	-65 to 150	°C	
Case temperature for 60 seconds	FK package 260		°C		
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds	JG package	300		°C	
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds	D or P package		260	°C	

NOTES: 1. Voltage values are with respect to network GND, unless otherwise specified.

2. This is the voltage between two emitters of a multiple-emitter transistor.

3. This value applies when the base-emitter resistance (R<sub>BF</sub>) is equal to or less than 500  $\Omega$ .

4. Both halves of these dual circuits may conduct rated current simultaneously; however, power dissipation averaged over a short time interval must fall within the continuous dissipation rating.

#### DISSIPATION RATING TABLE

PACKAGE	T <sub>A</sub> ≤ 25°C POWER RATING	DERATING FACTOR ABOVE T <sub>A</sub> = 25°C	T <sub>A</sub> = 70°C POWER RATING	T <sub>A</sub> = 125°C POWER RATING
D	725 mW	5.8 mW/°C	464 mW	—
FK	1375 mW	11.0 mW/°C	880 mW	275 mW
JG	1050 mW	8.4 mW/°C	672 mW	210 mW
Р	1000 mW	8.0 mW/°C	640 mW	_

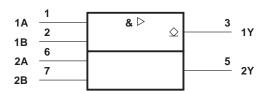
#### recommended operating conditions

		SN55'			SN75'		UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Supply voltage, V <sub>CC</sub>	4.5	5	5.5	4.75	5	5.25	V
High-level input voltage, V <sub>IH</sub>	2			2			V
Low-level input voltage, VIL			0.8			0.8	V
Operating free-air temperature, T <sub>A</sub>	-55		125	0		70	°C



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## logic symbol<sup>†</sup>

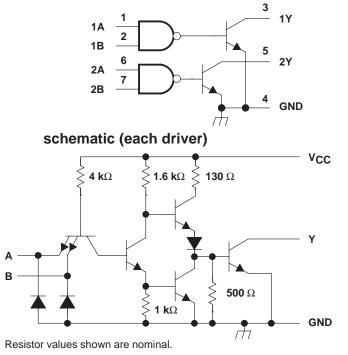


<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC publication 617-12.

Pin numbers shown are for the D, JG, and P packages.

F	FUNCTION TABLE (each driver)									
Α	В	Y								
L	L	L (on state)								
L	н	L (on state)								
н	L	L (on state)								
н	Н	H (off state)								
	positive logic: Y = AB or A+B									

### logic diagram (positive logic)



#### electrical characteristics over recommended operating free-air temperature range

		TEAT CON		S	N55451E	3	S	N75451E	3	UNIT
	PARAMETER	TESTCON	TEST CONDITIONS <sup>‡</sup>		TYP§	MAX	MIN	TYP§	MAX	UNIT
VIK	Input clamp voltage	$V_{CC} = MIN,$	lj = -12 mA		-1.2	-1.5		-1.2	-1.5	V
Max		$V_{CC} = MIN,$ $I_{OL} = 100 \text{ mA}$	V <sub>IL</sub> = 0.8 V,		0.25	0.5		0.25	0.4	V
VOL	Low-level output voltage	$V_{CC} = MIN,$ $I_{OL} = 300 \text{ mA}$	V <sub>IL</sub> = 0.8 V,		0.5	0.8		0.5	0.7	V
ЮН	High-level output current	$V_{CC} = MIN,$ $V_{OH} = 30 V$	V <sub>IH</sub> = MIN,			300			100	μA
Ц	Input current at maximum input voltage	V <sub>CC</sub> = MAX,	Vj = 5.5 V			1			1	mA
IIН	High-level input current	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 2.4 V			40			40	μA
ЧĽ	Low-level input current	V <sub>CC</sub> = MAX,	$V_{ } = 0.4 V$		-1	-1.6		-1	-1.6	mA
Іссн	Supply current, outputs high	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 5 V		7	11		7	11	mA
ICCL	Supply current, outputs low	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 0		52	65		52	65	mA

<sup>‡</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. § All typical values are at  $V_{CC}$  = 5 V, T<sub>A</sub> = 25°C.

# switching characteristics, $V_{CC}$ = 5 V, $T_A$ = 25°C

	PARAMETER		TEST CO	MIN	ТҮР	MAX	UNIT	
<sup>t</sup> PLH	Propagation delay time, low-to-high-level	output				18	25	
<sup>t</sup> PHL	Propagation delay time, high-to-low-level	gation delay time, high-to-low-level output		C <sub>L</sub> = 15 pF,		18	25	-
<sup>t</sup> TLH	Transition time, low-to-high-level output	Transition time, low-to-high-level output		See Figure 1		5	8	ns
<b>t</b> THL	Transition time, high-to-low-level output		]			7	12	
Val	High lovel output voltage offer switching	SN55451B	V <sub>S</sub> = 20 V,	l <sub>O</sub> ≈ 300 mA,		Vg-6.5		mV
∨он	High-level output voltage after switching	SN75451B	See Figure 2	-	Vg-6.5			IIIV



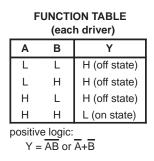
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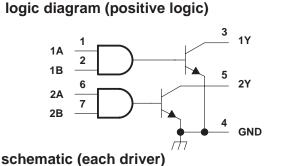
### logic symbol<sup>†</sup>

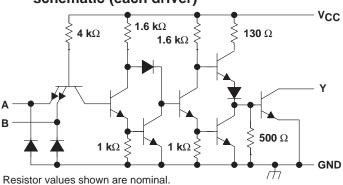


<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC publication 617-12.

Pin numbers shown are for the D, JG, and P packages.







### electrical characteristics over recommended operating free-air temperature range

Α

	DADAMETED	TEAT OON		5	SN55452E	3	S	N75452E	3	UNIT
	PARAMETER	TEST CONDITIONS <sup>‡</sup>		MIN	TYP§	MAX	MIN	TYP§	MAX	UNIT
VIK	Input clamp voltage	V <sub>CC</sub> = MIN,	$I_{I} = -12 \text{ mA}$		-1.2	-1.5		-1.2	-1.5	V
Vei		$V_{CC} = MIN,$ $I_{OL} = 100 \text{ mA}$	$V_{IH} = MIN,$		0.25	0.5		0.25	0.4	V
VOL Low-level output voltage	$V_{CC} = MIN,$ $I_{OL} = 300 \text{ mA}$	$V_{IH} = MIN,$		0.5	0.8		0.5	0.7	V	
ЮН	High-level output current	V <sub>CC</sub> = MIN, V <sub>OH</sub> = 30 V	V <sub>IL</sub> = 0.8 V,			300			100	μA
Ц	Input current at maximum input voltage	$V_{CC} = MAX,$	$V_{I} = 5.5 V$			1			1	mA
Чн	High-level input current	$V_{CC} = MAX,$	V <sub>I</sub> = 2.4 V			40			40	μA
Ι <sub>ΙL</sub>	Low-level input current	$V_{CC} = MAX,$	V <sub>I</sub> = 0.4 V		-1.1	-1.6		-1.1	-1.6	mA
ІССН	Supply current, outputs high	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 0		11	14		11	14	mA
ICCL	Supply current, outputs low	$V_{CC} = MAX,$	V <sub>I</sub> = 5 V		56	71		56	71	mA

<sup>‡</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. § All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.

## switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$

	PARAMETER			NDITIONS	MIN	ТҮР	MAX	UNIT
t <sub>PLH</sub>	Propagation delay time, low-to-high-level output					26	35	
<sup>t</sup> PHL	Propagation delay time, high-to-low-level output		I <sub>O</sub> ≈ 200 mA,			24	35	
<sup>t</sup> TLH	Transition time, low-to-high-level output		R <sub>L</sub> = 50 Ω,	See Figure 1		5	8	ns
<sup>t</sup> THL	Transition time, high-to-low-level output					7	12	
Val	High-level output voltage after switching	SN55452B	V <sub>S</sub> = 20 V,	lo ≈ 300 mA,		V <sub>S</sub> -6.5		mV
∨он	nigh-level output voltage after switching	SN75452B	See Figure 2	-	Vg-6.5			mv



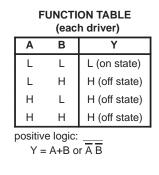
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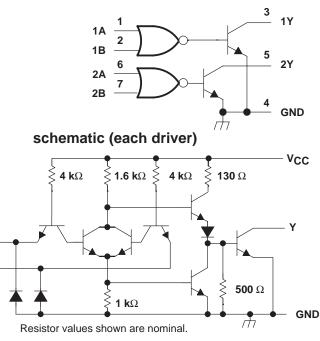
### logic symbol<sup>†</sup>



<sup>†</sup>This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC publication 617-12.

Pin numbers shown are for the D, JG, and P packages.





logic diagram (positive logic)

#### electrical characteristics over recommended operating free-air temperature range

B

	DADAMETER	7507.001	DITIONO <sup>†</sup>	S	SN55453E	3	S	6N75453E	3	LINUT
	PARAMETER	TEST CON	DITIONS+	MIN	TYP§	MAX	MIN	TYP§	MAX	UNIT
VIK	Input clamp voltage	$V_{CC} = MIN,$	l <sub>l</sub> = –12 mA		-1.2	-1.5		-1.2	-1.5	V
\/		$V_{CC} = MIN,$ $I_{OL} = 100 \text{ mA}$	V <sub>IL</sub> = 0.8 V,		0.25	0.5		0.25	0.4	V
VOL Low-level output voltage	Low-level output voltage	$V_{CC} = MIN,$ $I_{OL} = 300 \text{ mA}$	V <sub>IL</sub> = 0.8 V,		0.5	0.8		0.5	0.7	V
ЮН	High-level output current	V <sub>CC</sub> = MIN, V <sub>OH</sub> = 30 V	VIH = MIN,			300			100	μΑ
lj	Input current at maximum input voltage	$V_{CC} = MAX,$	Vj = 5.5 V			1			1	mA
IIH	High-level input current	$V_{CC} = MAX,$	V <sub>I</sub> = 2.4 V			40			40	μA
۱ <sub>IL</sub>	Low-level input current	$V_{CC} = MAX,$	V <sub>I</sub> = 0.4 V		-1	-1.6		-1	-1.6	mA
Іссн	Supply current, outputs high	$V_{CC} = MAX,$	V <sub>I</sub> = 5 V		8	11		8	11	mA
ICCL	Supply current, outputs low	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 0		54	68		54	68	mA

<sup>‡</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. § All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> =  $25^{\circ}$ C.

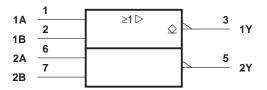
## switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$

	PARAMETER		TEST CO	MIN	ТҮР	MAX	UNIT	
<sup>t</sup> PLH	Propagation delay time, low-to-high-level	output				18	25	
<sup>t</sup> PHL	Propagation delay time, high-to-low-level	elay time, high-to-low-level output		C <sub>L</sub> = 15 pF,		18	25	-
<sup>t</sup> TLH	Transition time, low-to-high-level output			See Figure 1		5	8	ns
<sup>t</sup> THL	L Transition time, high-to-low-level output		]			7	12	
Val	High lovel output voltage offer switching	SN55453B	V <sub>S</sub> = 20 V,	I <sub>O</sub> ≈ 300 mA,		V <sub>S</sub> -6.5		mV
∨он	High-level output voltage after switching	SN75453B	See Figure 2		Vg-6.5			IIIV



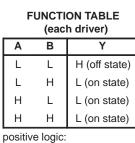
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#### logic symbol<sup>†</sup>

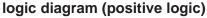


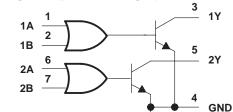
<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC publication 617-12.

Pin numbers shown are for the D, JG, and P packages.



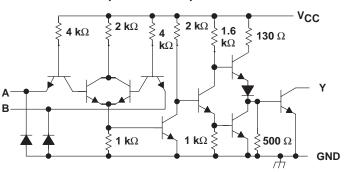
 $Y = \overline{A+B} \text{ or } \overline{AB}$ 





*m* 

#### schematic (each driver)



Resistor values shown are nominal.

### electrical characteristics over recommended operating free-air temperature range

		TEST CON	DITIONS	S	N55454E	3	S	N75454E	3	UNIT
	PARAMETER	TEST CON	TEST CONDITIONS <sup>‡</sup>		TYP§	MAX	MIN	TYP§	MAX	UNIT
VIK	Input clamp voltage	$V_{CC} = MIN,$	lj = -12 mA		-1.2	-1.5		-1.2	-1.5	V
Vei		$V_{CC} = MIN,$ $I_{OL} = 100 \text{ mA}$	V <sub>IH</sub> = MIN,		0.25	0.5		0.25	0.4	V
V <sub>OL</sub> Low-level output voltage	Low-level output voltage	$V_{CC} = MIN,$ $I_{OL} = 300 \text{ mA}$	VIH = MIN,		0.5	0.8		0.5	0.7	V
ЮН	High-level output current	V <sub>CC</sub> = MIN, V <sub>OH</sub> = 30 V	VIL = 0.8 V,			300			100	μA
Ц	Input current at maximum input voltage	$V_{CC} = MAX,$	Vj = 5.5 V			1			1	mA
ΙΗ	High-level input current	$V_{CC} = MAX,$	VI = 2.4 V			40			40	μA
۱ <sub>IL</sub>	Low-level input current	$V_{CC} = MAX,$	V <sub>I</sub> = 0.4 V		-1	-1.6		-1	-1.6	mA
Іссн	Supply current, outputs high	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 0		13	17		13	17	mA
ICCL	Supply current, outputs low	V <sub>CC</sub> = MAX,	V <sub>I</sub> = 5 V		61	79		61	79	mA

<sup>‡</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

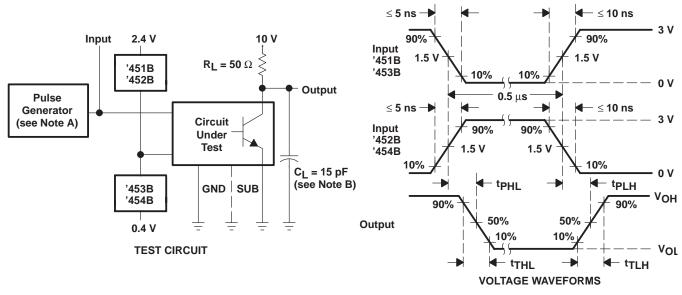
§ All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.

## switching characteristics, $V_{CC} = 5 V$ , $T_A = 25^{\circ}C$

	PARAMETER	TEST CO	MIN	TYP	MAX	UNIT		
<sup>t</sup> PLH	Propagation delay time, low-to-high-level output				27	35	ns	
<sup>t</sup> PHL	Propagation delay time, high-to-low-level output	I <sub>O</sub> ≈ 200 mA,	CL = 15 pF, See Figure 1		24	35		
<sup>t</sup> TLH	Transition time, low-to-high-level output	$R_L = 50 \Omega$ ,			5	8		
<sup>t</sup> THL	Transition time, high-to-low-level output					7	12	
Vон	High-level output voltage after switching	SN55454B		I <sub>O</sub> ≈ 300 mA,		Vg-6.5		mV
	High-level output voltage after switching	SN75454B			V <sub>S</sub> -6.5			IIIV



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### PARAMETER MEASUREMENT INFORMATION

NOTES: A. The pulse generator has the following characteristics: PRR  $\leq$  1 MHz, Z<sub>O</sub> = 50  $\Omega$ . B. C<sub>L</sub> includes probe and jig capacitance.

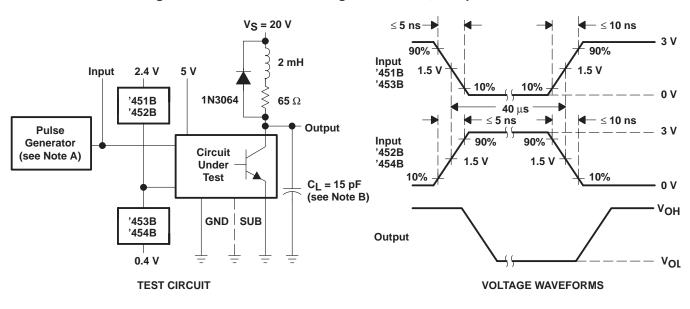


Figure 1. Test Circuit and Voltage Waveforms, Complete Drivers

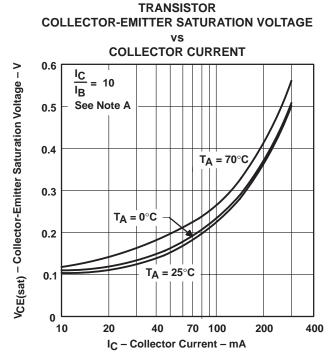
NOTES: A. The pulse generator has the following characteristics: PRR  $\leq$  12.5 kHz, Z\_O = 50  $\Omega.$  B. CL includes probe and jig capacitance.

Figure 2. Test Circuit and Voltage Waveforms for Latch-Up Test of Complete Drivers



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NOTE A: These parameters must be measured using pulse techniques,  $t_{\text{W}}$  = 300 µs, duty cycle  $\leq 2\%.$ 

Figure 3



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Product Folder: SN55453B, Dual Very-High Speed, High-Current Peripheral Drivers



PRODUCT FOLDER | PRODUCT INFO: FEATURES | DESCRIPTION | DATASHEETS | PRICING/AVAILABILITY/PKG | APPLICATION NOTES | MORE LITERATURE

#### SN55453B, Dual Very-High Speed, High-Current Peripheral Drivers

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN55453B	<u>SN75453B</u>
Output Voltage (max) (V)	30	30
Switching Voltage (max) (V)	20	20
Peak Output Current (mA)	500	500
Drivers Per Package	2	2
Output Clamp Diodes	No	No
Input Compatibility	TTL	TTL
Delay Time (typ) (ns)	18	18

#### FEATURES

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## PERIPHERAL DRIVERS FOR HIGH-CURRENT SWITCHING AT VERY HIGH SPEEDS

- · Characterized for Use to 300 mA
- High-Voltage Outputs
- No Output Latch-Up at 20 V (After Conducting 300 mA)
- High-Speed Switching
- Circuit Flexibility for Varied Applications
- TTL-Compatible Diode-Clamped Inputs
- Standard Supply Voltages
- Plastic DIP (P) With Copper Lead Frame Provides Cooler Operation and Improved Reliability
- Package Options Include Plastic Small-Outline Packages, Ceramic Chip Carriers, and Standard Plastic and Ceramic 300-mil DIPs

#### DESCRIPTION

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The SN55451B through SN55454B and SN75451B through SN75454B are dual peripheral drivers designed for use in systems that employ TTL logic. This family is functionally interchangeable with and replaces the SN75450 family and the SN75450A family devices manufactured previously. The speed of the devices is equal to that of the SN75450 family, and the parts are designed to ensure freedom from latch-up. Diode-clamped inputs simplify circuit design. Typical applications include high-speed logic buffers, power drivers, relay drivers, lamp drivers, line drivers, and memory drivers.

The SN55451B/SN75451B, SN55452B/SN75452B, SN55453B/SN75453B, and SN55454B/SN75454B are dual peripheral AND, NAND, OR, and NOR drivers, respectively (assuming positive logic), with the output of the logic gates internally connected to the bases of the npn output transistors.

The SN55' drivers are characterized for operation over the full military range of -55°C to 125°C. The SN75' drivers are characterized for operation from 0°C to 70°C.

TECHNICAL DOCUMENTS

To view the following documents, <u>Acrobat Reader 4.0</u> is required.

To download a document to your hard drive, right-click on the link and choose 'Save'.

DATASHEET

Full datasheet in Acrobat PDF: sn55453b.pdf (150 KB, Rev. B) (Updated: 09/03/1999)

APPLICATION NOTES

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Product Folder: SN55453B, Dual Very-High Speed, High-Current Peripheral Drivers

• Analog Applications Journal (Rev. A) (SLYT010A - Updated: 03/17/2000)

#### MORE LITERATURE

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- Enhanced Plastic Portfolio Brochure (SGZB004, 387 KB Updated: 08/19/2002)
- QML Class V Space Products Military Brief (Rev. A) (SGZN001A, 257 KB Updated: 10/07/2002)

PRICING/AVAILABILITY/PKG													
DEVICE INFORMATION Updated Daily							<b>TI INVENTORY STATUS</b> As Of 09:00 AM GMT, 17 Apr 2003			<b>REPORTED DISTRIBUTOR INVENTORY</b> As Of 09:00 AM GMT, 17 Apr 2003			
ORDERABLE DEVICE	<u>STATUS</u>	<u>PACKAGE</u> <u>TYPE   PINS</u>	<u>TEMP (°C)</u>	<u>DSCC</u> <u>NUMBER</u>	PRODUCT CONTENT	<u>BUDGETARY</u> <u>PRICING</u> QTY   \$US	<u>STD</u> <u>PACK</u> <u>QTY</u>	IN STOCK	<u>IN PROGRESS</u> QTY   DATE	LEAD TIME	<u>DISTRIBUTOR</u> COMPANY   REGION	IN STOCK	PURCHASE
5962- 9563301Q2A	ACTIVE	LCCC (FK)   20	-55 TO 125		View Contents	1KU   11.21	1	<u>199</u> *	3513   20 May	7 WKS	None Reported <u>View Distributors</u>		
									>10k   27 May				
5962- 9563301QPA	ACTIVE	CDIP (JC)   8	-55 TO 125		View Contents	1KU   5.76	1	<u>517</u> *	>10k   20 May	7 WKS	None Reported <u>View Distributors</u>		
SN55453BJG	ACTIVE	CDIP (JG)   8	-55 TO 125		View Contents	1KU   1.60	1	<u>0</u> *	233   05 May	7 WKS	<u>Avnet</u>   Americas	421	BUY NOW
									>10k   20 May		EBV Electronik	100	BUY NOW
											Avnet-SILICA   Europe	62	BUY NOW
SNJ55453BFK	ACTIVE	LCCC (FK)   20	-55 TO 125	5962- 9563301Q2A	View Contents	1KU   11.21	1	<u>130</u> *	3580   20 May	7 WKS	EBV Electronik	8	BUY NOW
									>10k   27 May				
SNJ55453BJG	ACTIVE	CDIP (JG)   8	-55 TO 125	5962- 9563301QPA	<u>View Contents</u>	1KU   5.76	1	<u>72</u> *	>10k   20 May	7 WKS	None Reported <u>View Distributors</u>		

Table Data Updated on: 4/17/2003

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