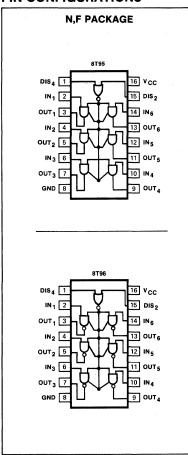
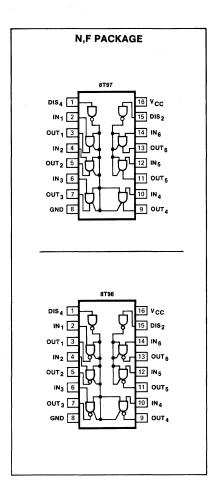
8T95-N,F • 8T96-N,F • 8T97-N,F • 8T98-N,F

DESCRIPTION

Each of the 3-State Bus Interface Elements described herein has low current PNP inputs and is designed with Schottky TTL technology for ultra high speed. The devices are used to convert TTL/DTL or MOS/CMOS to 3-state TTL Bus levels. For maximum systems flexibility the 8T95 and 8T97 do so without logic inversion, whereas, the 8T96 and 8T98 provide the logical complement of the input. The 8T95 and 8T96 feature a common control line for all six devices, whereas, the 8T97 and 8T98 have control lines for four devices from one input and two from another input.

PIN CONFIGURATIONS





TRUTH TABLE

DEVICE	DISABLE DIS ₁	DISABLE DIS4	INPUT DIS ₂	INPUT	ОИТРИТ
	0		0	0	0
	0		0	1	1
8T95	0			x	H-z
0130	1		0	x	H-z
	1		1	x	H-z
	0	_	0	0	1
	0	_	0	1	0
8T96	0	_	1	x	H-z
0.00	1	-	0	x	H-z
	1		11	х	H-z
	_	0	0	0	0
8T97		0	0	1	1
0107		x	1	x	H-z*
	_	1	×	x	H-z**
	_	0	0	0	1
8T98	_	0	0	1	0
5,00	_	x	1	x	H-z*
	_	1	x	x	H-z**

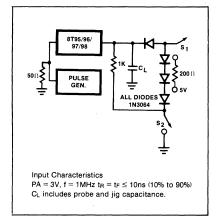
^{*}Output 5-6 only **Output 1-4 only x = irrelevant

8T95-N,F • 8T96-N,F • 8T97-N,F • 8T98-N,F

DC ELECTRICAL CHARACTERISTICS

PARAMETER		TEST CONDITIONS	LIMITS			UNIT
		TEST CONDITIONS	Min	Тур	Max	
	Input voltage					
VIL	Low		1	}	0.8	V
V_{iH}	High		2.0			V
Vic	Clamp	$V_{CC} = MIN$, $I_{IN} = -12mA$	ì		1	
	Input		Ì		-1.5	V
	Output to ground				-1.5	٧
	Output voltage	V _{CC} = MIN	Í		ĺ	
Vol		I _{OL} = 48mA	ł		0.5	٧
Voн		I _{OH} = 5.2mA	2.4			V
	Input current	$V_{CC} = MAX, V_{IN} = 0.5V$	[[
I _I L	Low	$D_{IS} = 0.5V$		l	-400	μΑ
		D _{IS} = 2.0V (third state)	1]	-40	μΑ
lін	High	$V_{IN} = 2.4V$			40	μA
los	Short circuit output current	$V_{CC} = MAX$, $V_{IN} = 0V$, $V_{OUT} = 0V$	-40	-80	-115	μΑ

AC TEST CIRCUIT



AC ELECTRICAL CHARACTERISTICS TA = 25°C, VCC = 5.0V

	PARAMETER		TO FROM	TEST CONDITIONS	8T95/97			8T96/98			
					Min	Тур	Max	Min	Тур	Max	UNIT
	Propagation delay										
ton		Outputs	Inputs		3	9	13	3	6	10	ns
toff		Outputs	Inputs		3	7	12	4	7	11	ns
]	Disable to Outputs										
t _{POH}		High Z	Low	S_1, S_2 are closed, $C_L = 5pF$	3	6	12	5	10	16	ns
tPLH		High Z	High	S_1, S_2 are closed, $C_L = 5pF$	3	5	10	3	6	10	ns
tPHO		Low	High Z	S ₁ is closed, S ₂ is open;							
1				$C_L = 50pF$	12	14	25	11	18	24	ns
tPHL		High	High Z	S ₁ is open, S ₂ is closed;							
				C _L = 50pF	8	19	25	7	15	22	ns

PARAMETER MEASUREMENT INFORMATION

