8-INPUT DIGITAL MULTIPLEXER ADVANCED INFORMATION 82S32

DIGITAL 8000 SERIES SCHOTTKY TTL/MSI

DESCRIPTION

The 8-Input Digital Multiplexer is the logical equivalent of a single-pole, 8 position switch whose position is specified by a 3-bit input address.

The 82S31 is a variation of the 82S30 that provides open collector output \overline{f} for expansion of input terms. The 82S32 is similar to the 82S30 except in the effect of the INHIBIT input on the \overline{f} output. With the INHIBIT low, the selected input appears at the f output and, in complement, on the \overline{f} output. With the INHIBIT input high, both the f and the \overline{f} output are unconditionally low.

FEATURES

- **•**SCHOTTKY-CLAMPED TTL STRUCTURE
- PNP INPUTS
- OPEN COLLECTOR OUTPUT (82S31)
- DIRECT OUTPUT INHIBIT (82\$32)

LOGIC DIAGRAMS

ELECTRICAL CHARACTERISTICS Propagation Delay (Typ)

	82S32	82S31
A _n to f I _n to f	12ns	14ns
I _n to f	7ns	9ns
Input Load Current (Max)		
l _{In"0"}		400µA
ln"1"		10µA
Output Current		
lout"0"	20mA @ 0.5V	
lout"1"	1mA @ 2.7V (8	2S30/32)

