

# 82S42 | 4-BIT QUAD EXCLUSIVE-NOR

## ADVANCED INFORMATION DIGITAL 8000 SERIES SCHOTTKY TTL/MSI

### DESCRIPTION

The 82S42 contains four independent Exclusive-NOR gates which may be used to implement digital comparison functions. The 82S42 outputs are bare collector to facilitate implementation of multiple-bit comparisons; a 4-bit comparison is made by connecting the outputs of the four independent gates together.

### FEATURES

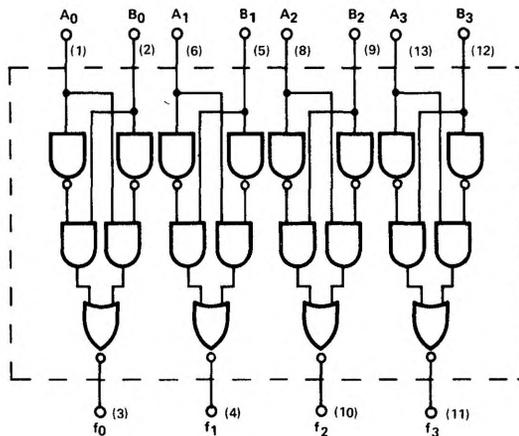
- SCHOTTKY-CLAMPED TTL STRUCTURE
- PNP INPUTS
- OPEN COLLECTOR OUTPUTS

### LOGIC DIAGRAM

### ELECTRICAL CHARACTERISTICS

Propagation Delay (Typ)	$A_n, B_n$ to $f_n$	9ns (82S42)
Input Load Current (Max)	$I_{In}''0''$	800 $\mu$ A
	$I_{In}''1''$	20 $\mu$ A
Output Current (Min)	$I_{out}''0''$	30mA @ 0.5V (82S42)

82S42 QUAD EXCLUSIVE-NOR



A	B	f
0	0	1
1	0	0
0	1	0
1	1	1

$V_{CC}$  = (14)  
 GND = (7)  
 ( ) = Denotes Pin Numbers