

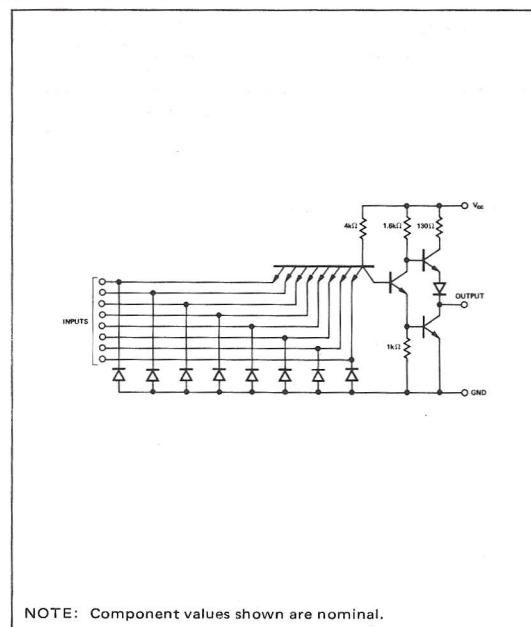
signetics

8-INPUT POSITIVE NAND GATE

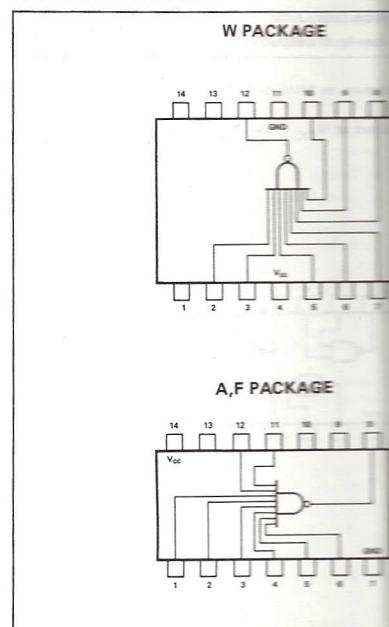
S5430-A,F,W • N7430A,F

DIGITAL 54/74 TTL SERIES

SCHEMATIC DIAGRAM



PIN CONFIGURATIONS



RECOMMENDED OPERATING CONDITIONS

PARAMETER	MIN	NOM	MAX
Supply Voltage V_{CC} : S5430 Circuits N7430 Circuits	4.5	5	5.25
Normalized Fan-Out from Output, N	4.75	5	5.25
Operating Free-Air Temperature Range, T_A : S5430 Circuits N7430 Circuits	-55	25	125
	0	25	70

ELECTRICAL CHARACTERISTICS (over recommended operating free-air temperature range unless otherwise noted)

PARAMETER	TEST CONDITIONS *	MIN	TYP**
$V_{in(1)}$	$V_{CC} = \text{MIN}$		2
$V_{in(0)}$	$V_{CC} = \text{MIN}$		
$V_{out(1)}$	$V_{CC} = \text{MIN}$, $I_{load} = -400\mu\text{A}$	$V_{in} = 0.8\text{V}$,	2.4
$V_{out(0)}$	$V_{CC} = \text{MIN}$, $I_{sink} = 16\text{mA}$	$V_{in} = 2\text{V}$,	0.22
$I_{in(0)}$	$V_{CC} = \text{MAX}$,	$V_{in} = 0.4\text{V}$	
$I_{in(1)}$	$V_{CC} = \text{MAX}$,	$V_{in} = 2.4\text{V}$	
I_{OS}	$V_{CC} = \text{MAX}$,	$V_{in} = 5.5\text{V}$	
	$V_{CC} = \text{MAX}$,	S5430	-20
		N7430	-18