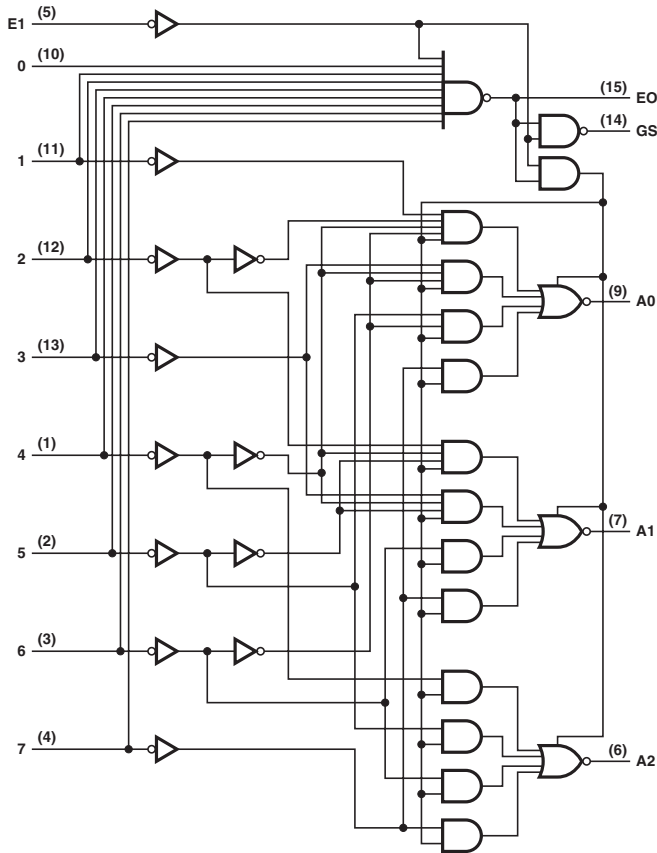


8-LINE TO 3-LINE PRIORITY ENCODERS WITH 3-STATE OUTPUTS

- 3-State Outputs Drive Bus Lines Directly
- Encodes 8 Data Lines to 3-Line Binary (Octal)

Logic Diagram



FUNCTION TABLE

INPUTS								OUTPUTS					
E1	0	1	2	3	4	5	6	7	A2	A1	A0	GS	E0
H	X	X	X	X	X	X	X	X	Z	Z	Z	H	H
L	H	H	X	H	X	H	X	H	Z	Z	Z	H	L
L	X	X	X	X	X	X	X	L	L	L	L	L	H
L	X	X	X	X	X	X	L	H	L	L	H	L	H
L	X	X	X	X	L	H	H	H	L	H	L	L	H
L	X	X	X	L	H	H	H	H	L	L	L	L	H
L	X	X	L	H	H	H	H	H	H	L	L	L	H
L	X	L	H	H	H	H	H	H	H	H	L	L	H
L	L	H	H	H	H	H	H	H	H	H	H	L	H

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER		MAX or MIN	LS	UNIT
I _{CC}		MAX	25	mA
I _{OH}	A0, A1, A2	MAX	-2.6	mA
	E0, ES	MAX	-0.4	mA
I _{OL}	A0, A1, A2	MAX	24	mA
	E0, ES	MAX	8	mA

SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	LS
t _{PLH}	1 to 7	A0, A1, A2	MAX	35
t _{PHL}			MAX	35
t _{PLH}	0 to 7	E0	MAX	18
t _{PHL}			MAX	40
t _{PLH}	0 to 7	GS	MAX	55
t _{PHL}			MAX	21

UNIT: ns