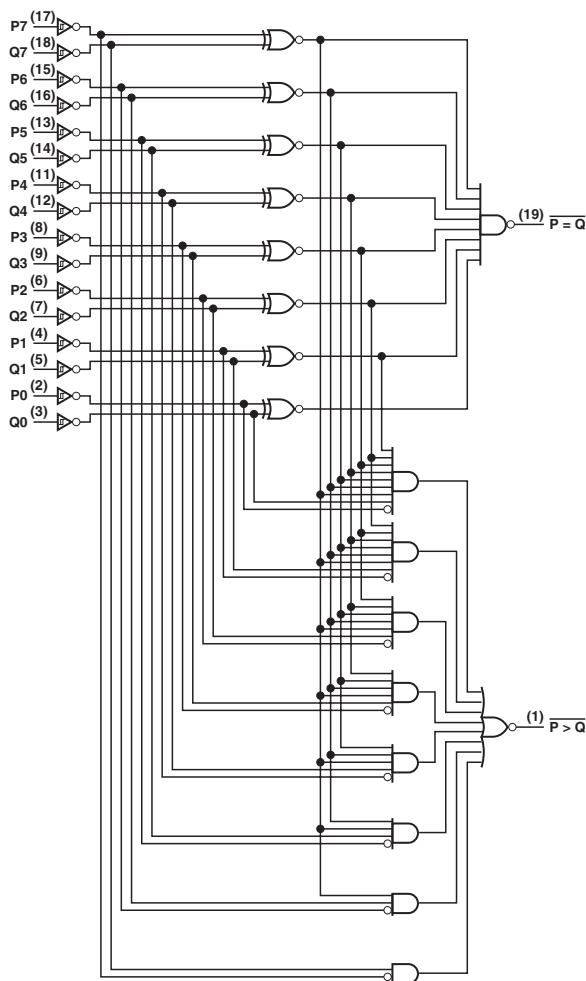


8-BIT MAGNITUDE/IDENTITY COMPARATORS

- Totem-Pole Outputs
- Hysteresis at P and Q Inputs

Logic Diagram



FUNCTION TABLE

INPUTS			OUTPUTS	
DATA	ENABLE		$\overline{P-Q}$	$P-Q$
P, Q	G1	G2		
$P=Q$	L	L	L	H
$P>Q$	L	L	H	L
$P<Q$	L	L	H	H
X	H	H	H	H

ELECTRICAL CHARACTERISTICS AND RECOMMENDED OPERATING CONDITIONS

PARAMETER	MAX or MIN	LS	UNIT
I_{CC}	MAX	75	mA
I_{OH}	MAX	-0.4	mA
I_{OL}	MAX	24	mA

SWITCHING CHARACTERISTICS

PARAMETER	INPUT	OUTPUT	MAX or MIN	LS
t_{PLH}	P	$\overline{P=Q}$	MAX	25
t_{PHL}				30
t_{PLH}	Q	$\overline{P=Q}$	MAX	25
t_{PHL}				30
t_{PLH}	$\overline{G1}$	$\overline{P=Q}$	MAX	20
t_{PHL}				30
t_{PLH}	P	$\overline{P>Q}$	MAX	30
t_{PHL}				30
t_{PLH}	Q	$\overline{P>Q}$	MAX	30
t_{PHL}				30
t_{PLH}	$\overline{G2}$	$\overline{P>Q}$	MAX	30
t_{PHL}				25

UNIT: ns