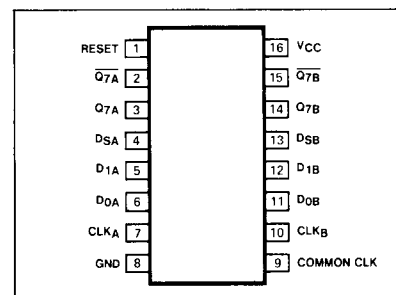
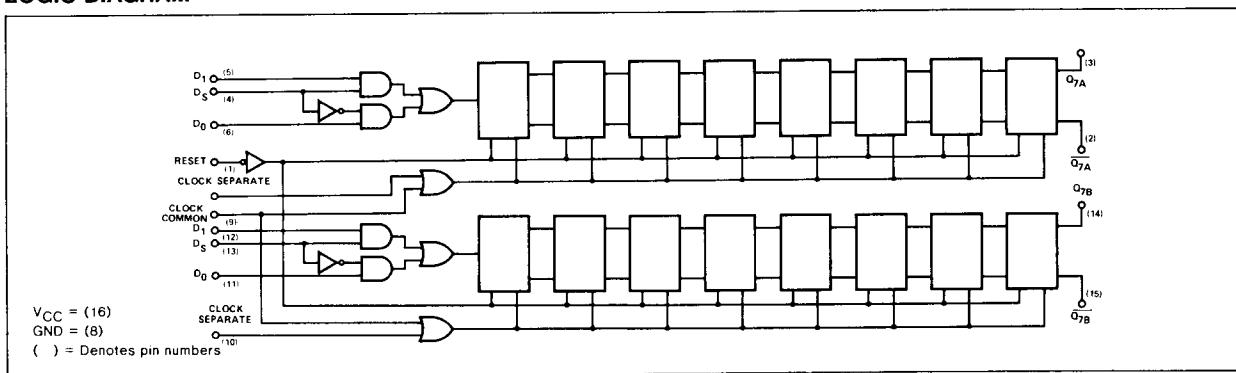


3. SEPARATE CLOCK lines (pins 7 and 10) for each 8-bit register are provided as well as a COMMON CLOCK line (pin 9) for all sixteen storage bits.
4. Common RESET (pin 1).
5. AND-OR gating to the input of each 8-bit register is provided to accomplish the multiplex function.
6. Direct replacement for 9328.



PACKAGES	COMMERCIAL RANGES $V_{CC}=5V \pm 5\%$; $T_A=0^{\circ}C$ to $+75^{\circ}C$	MILITARY RANGES $V_{CC}=5V \pm 5\%$; $T_A=-55^{\circ}C$ to $+125^{\circ}C$
Plastic DIP	N8277N	
Ceramic DIP	N8277F	
Flatpak		

D _S	D ₀	D ₁	Reset	Function
L	L	X	H	Shift in "0"
L	H	X	H	Shift in "1"
H	X	L	H	Shift in "0"
H	X	H	H	Shift in "1"
X	X	X	L	Reset "Q" to "0"



PARAMETER		TEST CONDITIONS	8277		UNIT
			Min	Max	
V _{OH}	Output HIGH voltage	V _{CC} = 4.75V, I _{OH} = -800μA	2.6		V
V _{OL}	Output LOW voltage	V _{CC} = 4.75V, I _{OL} = 16mA		0.4	V
I _{IH}	Input HIGH Current Data, Reset, Clock separate Data select, Clock common	V _{CC} = 5.25V, V _{IN} = 4.5V		40 80	μA μA
I _{IL}	Input LOW current Data, Reset, Clock separate Data select, Clock common	V _{CC} = 5.25V, V _{IN} = 0.4V		-1.6 -3.2	mA mA
V _{BD}	Input breakdown voltage	V _{CC} = 4.75V, I _{IN} = 10mA	5.5		V
I _{CC}	Supply current	V _{CC} = 5.25V		103	mA

AC CHARACTERISTICS: $T_A = 25^\circ\text{C}$ (See Section 4 for Waveforms and Conditions)

PARAMETER		TEST CONDITIONS	8277		UNIT
			$C_L = 18\text{pF}$ $R_1 = \infty\Omega$ $R_2 = 84.5\Omega$		
			Min	Max	
t _{PHL}	Propagation delay	Figure 1		40	ns
t _{PLH}	Clock to output			40	ns
t _{PHL}	Propagation delay	Figure 1		40	ns
t _{PLH}	Reset to output			40	ns

NOTE

b. For family dc characteristics, see inside front cover for 54/74 and 54H/74H, and see inside back cover for 54S/74S and 54LS/74LS specifications.

AC SETUP REQUIREMENTS: $T_A = 25^\circ\text{C}$ (See Section 4 for Test Circuits and Conditions)

PARAMETER	TEST CONDITIONS	8277		UNIT
		Min	Max	
f_{Max} Maximum clock frequency		15		MHz
t_W Clock pulse width	Figure 1	15		ns
t_S Set-up time	Figure 1	30		ns
t_H Hold time	Figure 1	5		ns

AC WAVEFORM

