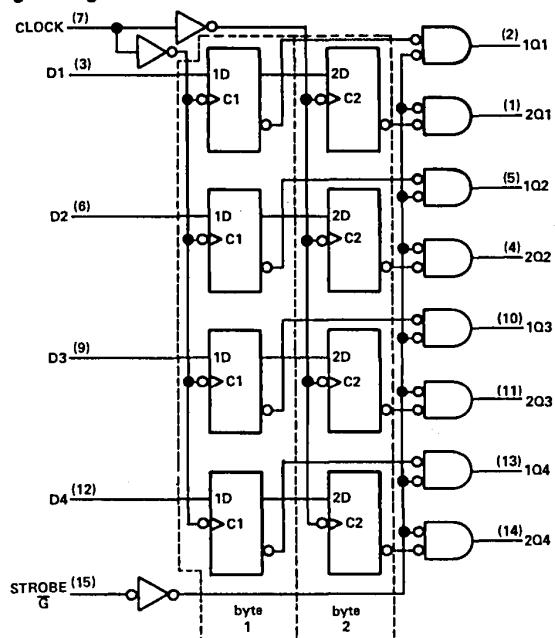
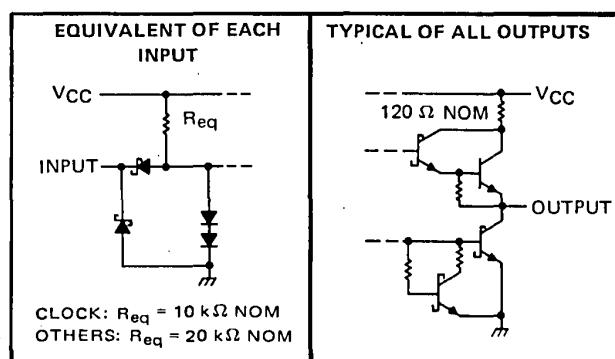


TYPES SN54LS396, SN74LS396 OCTAL STORAGE REGISTERS

logic diagram



schematics of inputs and outputs



Pin numbers shown on logic notation are for D, J or N packages.

3

TTL DEVICES

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage, V _{CC} (see Note 1)	7 V
Input voltage	7 V
Operating free-air temperature range: SN54LS396	-55°C to 125°C
SN74LS396	0°C to 70°C
Storage temperature range	-65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.

recommended operating conditions

	SN54LS396			SN74LS396			UNIT
	MIN	NOM	MAX	MIN	NOM	MAX	
Supply voltage, V _{CC}	4.5	5	5.5	4.75	5	5.25	V
High-level output current, I _{OH}		-400		-400			µA
Low-level output current, I _{OL}		4		8			mA
Clock frequency, f _{clock}	0	30	0	0	30	0	MHz
Width of clock pulse, t _W	20			20			ns
Setup time, t _{SU}	20			20			ns
Hold time, t _H	5			5			ns
Operating free-air temperature, T _A	-55		125	0		70	°C

