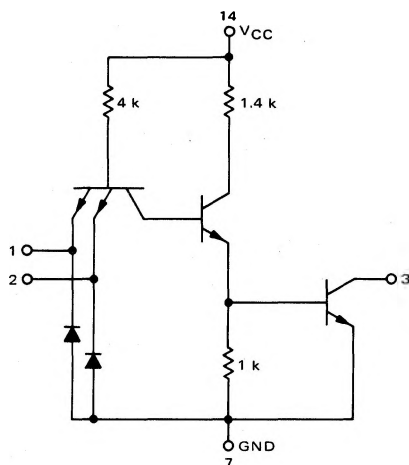


QUAD 2-INPUT INTERFACE "NAND" GATE

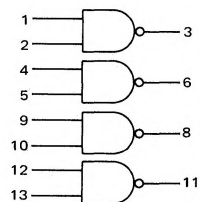
MC5400/7400 series

MC5426L*
MC7426P,L*

1/4 OF CIRCUIT SHOWN



This device features high-output voltage ratings for use as an interface circuit with 12 volt systems, such as low threshold voltage MOS logic circuits. The output is rated at 15 volts, however, V_{CC} is connected to the standard 5 volt source. The output transistor has a 16 milliamp sink capability at an output voltage of 0.4 volt maximum, thus allowing high fan-out drive capability while maintaining the nominal power dissipation of the standard gate.



Positive Logic: $3 = \overline{1 \cdot 2}$

Negative Logic: $3 = \overline{1 + 2}$

Input Loading Factor = 1

Output Loading Factor = 10

Total Power Dissipation = 40 mW typ/pkg

Propagation Delay Time = 17 ns typ

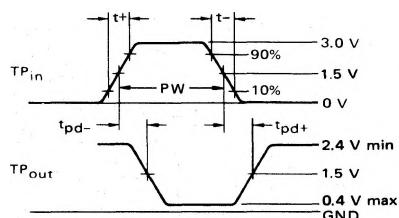
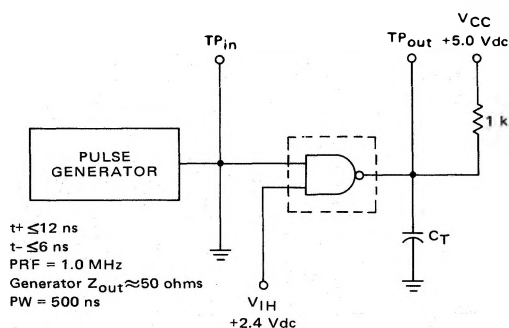
*L suffix = TO-116 ceramic package (Case 632)

P suffix = TO-116 plastic package (Case 605)

See General Information section for package outline dimensions.

VOLTAGE WAVEFORMS AND DEFINITIONS

SWITCHING TIME TEST CIRCUIT



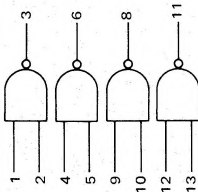
$C_T = 15$ pF = total parasitic capacitance, which includes probe, wiring, and load capacitances.

High impedance probes (>1.0 megohm) must be used for tests.

MC5426L, MC7426P,L (continued)

ELECTRICAL CHARACTERISTICS

Test procedures are shown for only one gate. The other gates are tested in the same manner. Further, test procedures are shown for only one input of the gate under test. To complete testing, sequence through remaining inputs.

[illegible]

*Ground inputs to gates not under test.

•• Tested only at 25°C.