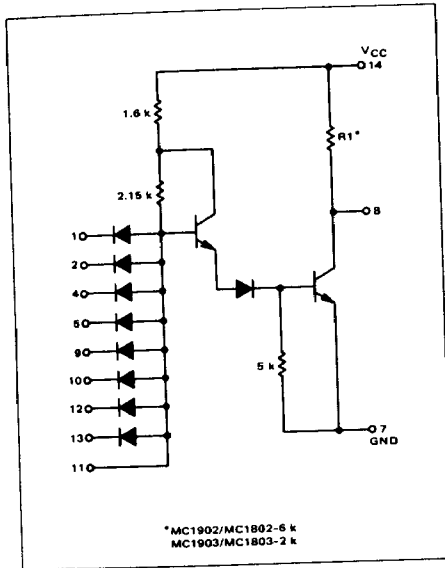


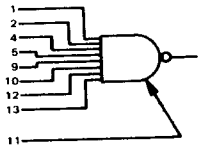
EXPANDABLE 8-INPUT
"NAND" GATE

MDTL MC930/830 series

MC1902F · MC1802F, P
MC1903F · MC1803F, P



This device is an expandable 8-input NAND gate. It is useful when processing a large number of variables, such as in encoders or decoders.



Positive Logic: $B = \overline{1 \cdot 2 \cdot 4 \cdot 5 \cdot 9 \cdot 10 \cdot 12 \cdot 13}$ [11]
Negative Logic: $B = 1 + 2 + 4 + 5 + 9 + 10 + 12 + 13 + 111$

Input Loading Factor = 1

Output Loading Factor:

MC1902/MC1802 = 8

MC1903/MC1803 = 7

Total Power Dissipation:

MC1902/MC1802 = 11 mW typ/pkg

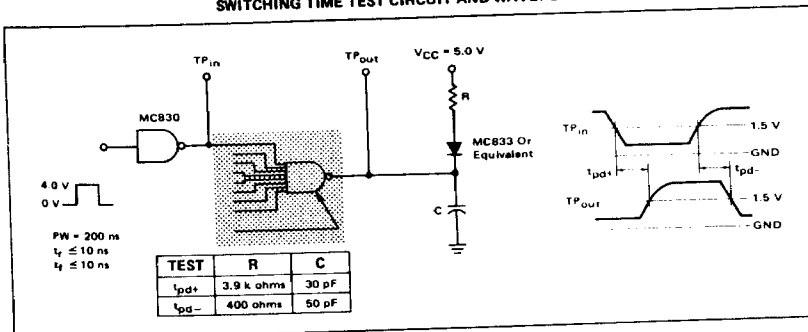
MC1903/MC1803 = 16.5 mW typ/pkg

Propagation Delay Time:

MC1902/MC1802 = 30 ns typ

MC1903/MC1803 = 25 ns typ

SWITCHING TIME TEST CIRCUIT AND WAVEFORMS



76

PRODUCT DOCUMENTATION

The three documents listed in the following table are required for a complete description of the DSP56301 and are necessary to design properly with the part. Documentation is available from one of the following locations (see back cover for detailed information):

- A local Motorola distributor
- A Motorola semiconductor sales office
- A Motorola Literature Distribution Center
- The World Wide Web (WWW)

See the **Additional Support** section of the *DSP56300 Family Manual* for detailed information on the multiple support options available to you.

Table 1 DSP56301 Documentation

Name	Description	Order Number
DSP56300 Family Manual	Detailed description of the DSP56300 family processor core and instruction set	DSP56300FM/AD
DSP56301 User's Manual	Detailed functional description of the DSP56301 memory configuration, operation, and register programming	DSP56301UM/AD
DSP56301 Technical Data	DSP56301 features list and physical, electrical, timing, and package specifications	DSP56301/D

