INTEGRATED CIRCUITS *MC660 P,L Series (-30°C to +75°C) *MC660TL Series (-55°C to +125°C)

Motorola's MHTL integrated circuits are especially designed to meet the requirements of industrial applications because of the outstanding noise immunity. MHTL circuits provide error-free operation in high noise environments far beyond the tolerance of other integrated circuit families. Multifunction packages and broad operating temperature range further tailor this device family to the industrial designer's requirements.

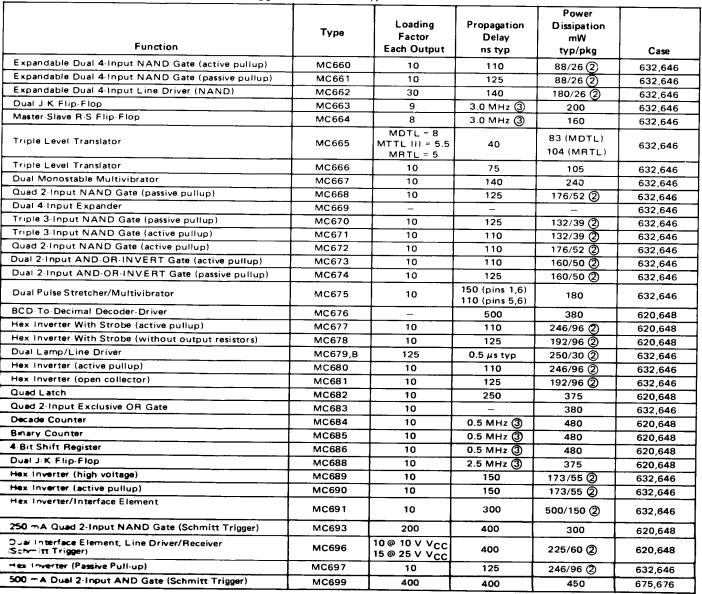
*MHTL cermaic dual in-line devices are available with specification over the -55°C to +125°C temperature range and/or with hi-rel processing on special order. See your Motorola representative for pricing.

MHTL, MDTL, MTTL, and MRTL are trademarks of Motorola Inc.



PC SUFFIX LASTIC PACKAGE **CASE 676**

FUNCTIONS AND CHARACTERISTICS (V_{CC} = 15 V \pm 1.0 Vdc, T_A = 25^oC)







TL, L SUFFIX CERAMIC PACKAGE CASE 632

P SUFFIX PLASTIC PACKAGE **CASE 646**

P SUFFIX

PLASTIC PACKAGE CASE 648

TL, L SUFFIX

CERAMIC PACKAGE **CASE 620**

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mouts High Input Low

WC660P = Dual In-Line Plastic Package)

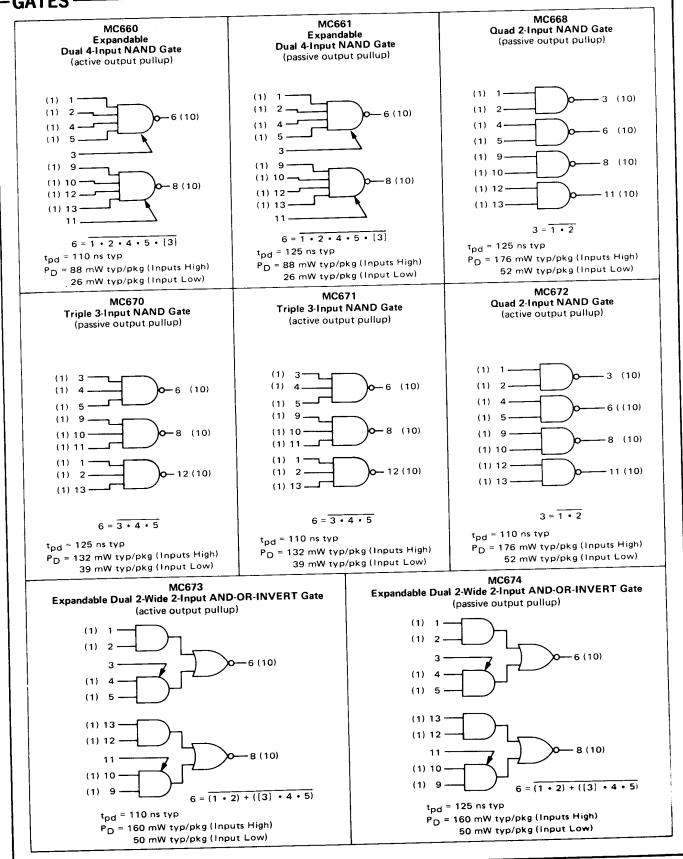
3 frog

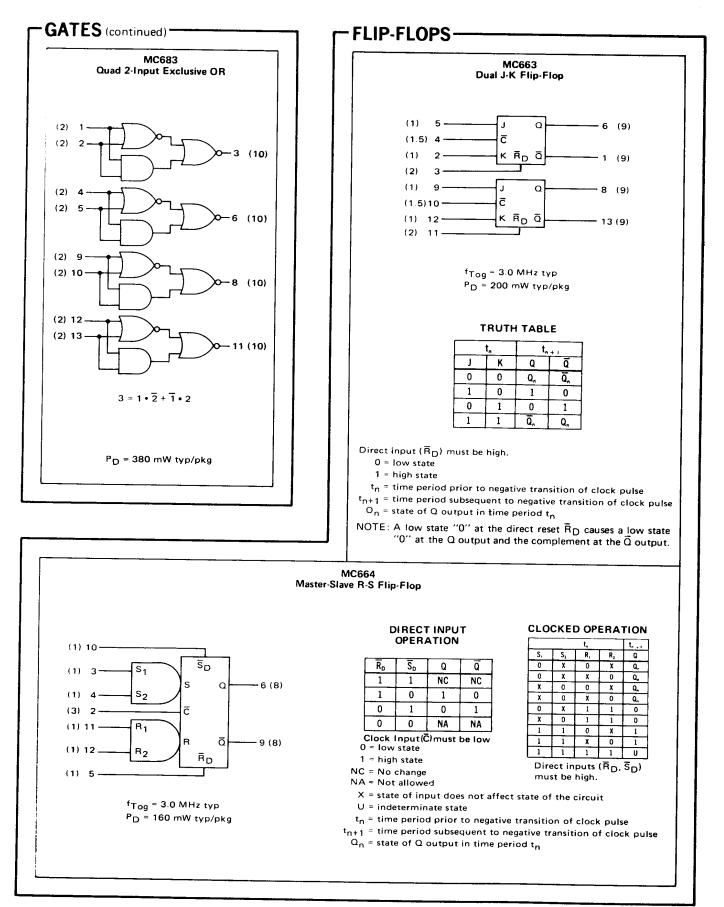
18

🛫 🐅 🌴 💷 denotes Dual In-Line Ceramic Package, P denotes Dual In-Line Plastic Package (i.e., MC660L = Dual In-Line Ceramic,

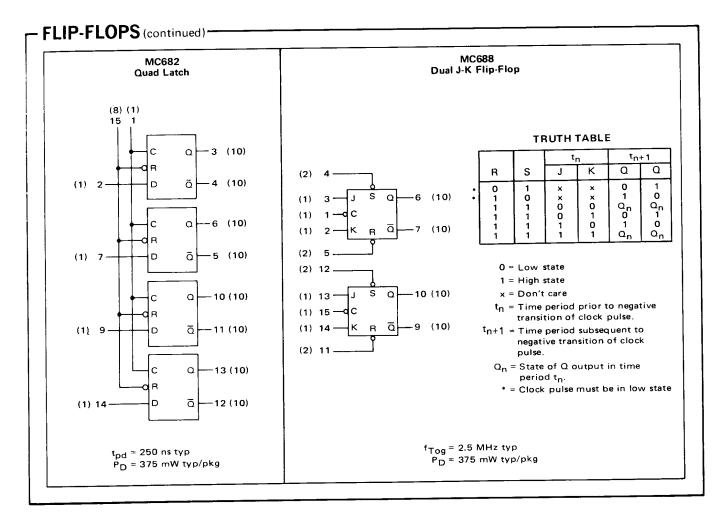
MMTL LOGIC DIAGRAMS

-GATES

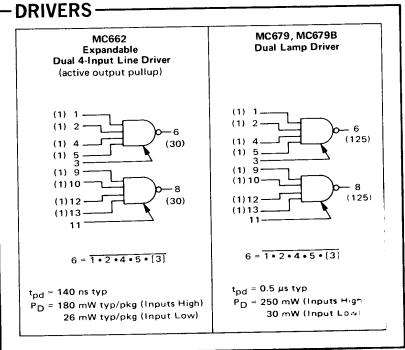


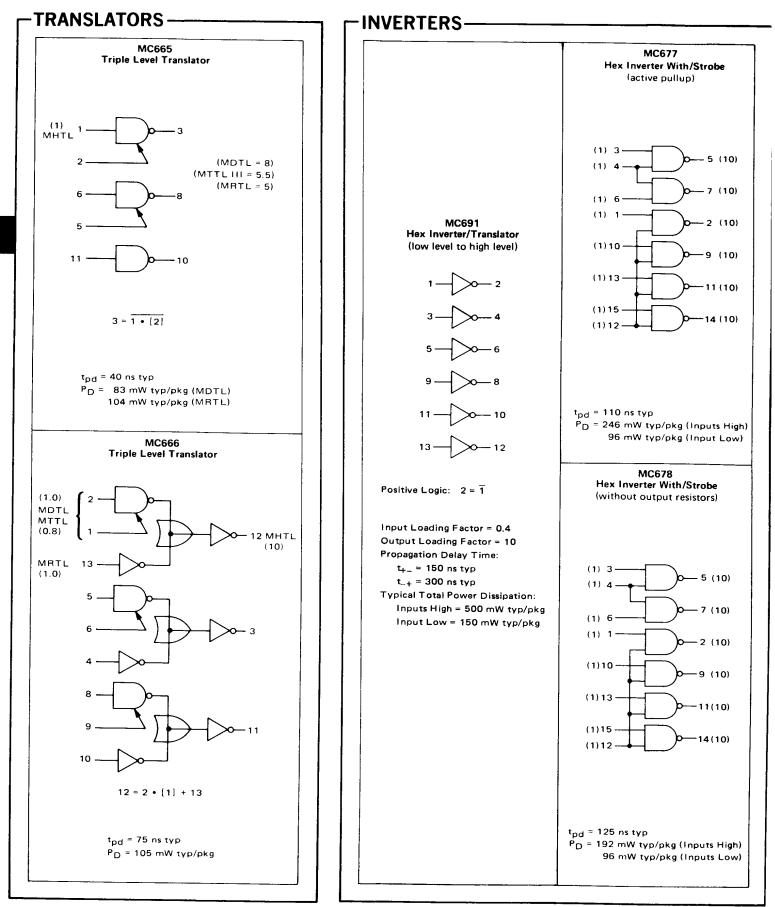


辺間TL LOGIC DIAGRAMS

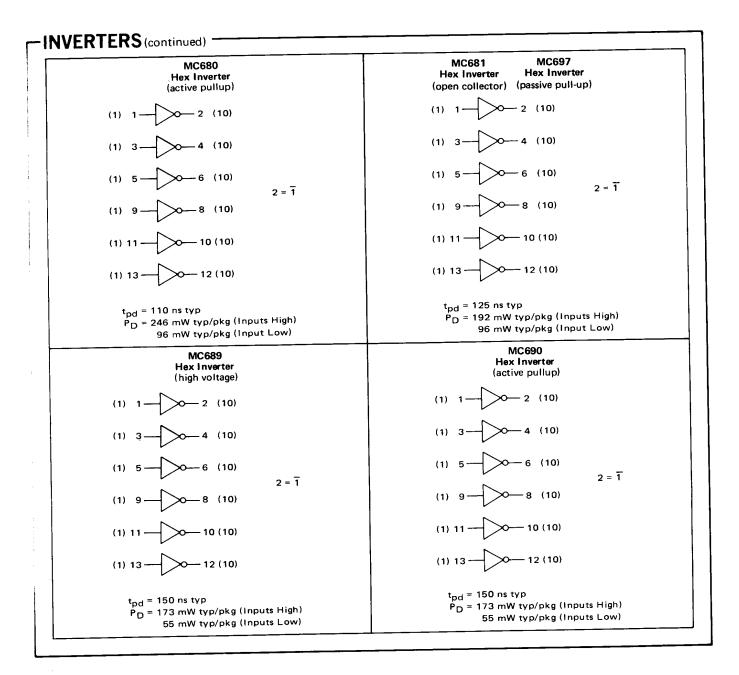


EXPANDER MC669 Dual 4-Input Expander (1) (1) 2 (1) 3 (1) 5 6 (1) (1) 9-(1) 10 -(1) 12 ----(1) 13 4 = 2 • 3 • 5 • 6

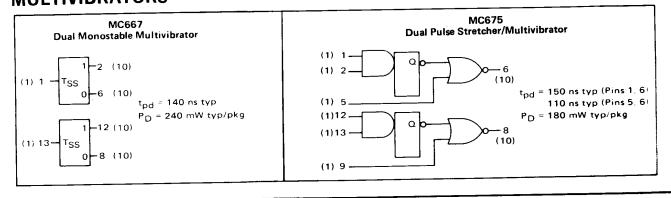




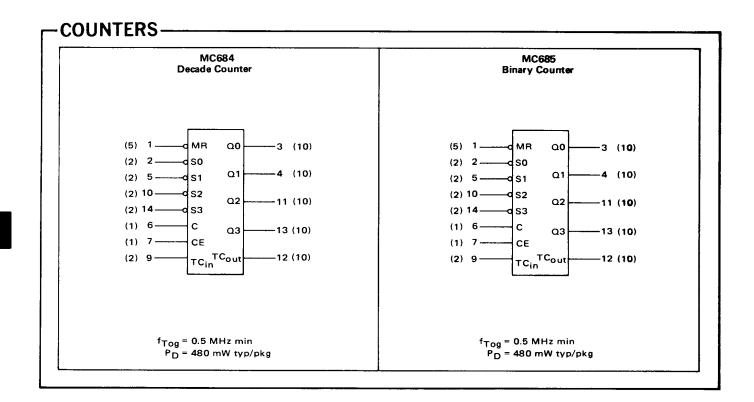
MMTL LOGIC DIAGRAMS

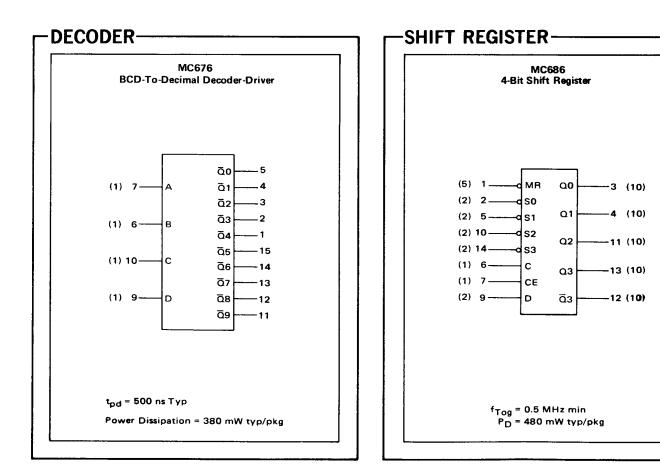


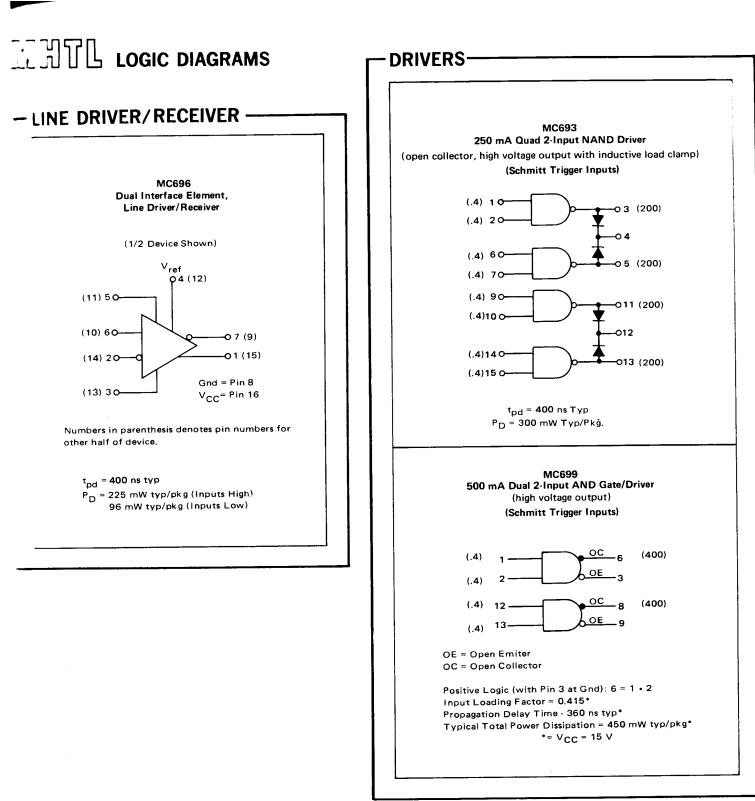




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MAXIMUM RATINGS ($T_A = 25^{\circ}C$)

Rating	Symbol	Value	Unit
Power Supply Voltage Continuous Pulsed, 1.0 s	Vcc	18 20	Vdc
Input Voltage MC666 MDTL MRTL All Others	V _{in}	-1.0 to +6.0 -4.0 to +4.0 -1.0 to +18	Vdc
Output Current (into outputs) MC662 MC663 MC664 MC669 All Others except Power Drivers	-	60 28 26 30	mAdc
Input Reverse Current @ 18 V	^I R	0.5	mAdc
Forward Current (individual) MC669P	IF I	30	mAdc
Operating Temperature Range	TA	-30 to +75	°c
Storage Temperature Range	Tstg	-55 to +125	°c