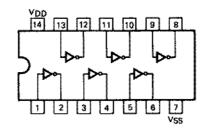
GD4069UB

HEX INVERTER

DESCRIPTION - The 4069UB is a general purpose Hex Inverter which has standard as input and output characteristics. A single-stage MEDIUM TRANS — THE MODELLO IS A general purpose riex inverses which has standard 55 input and output characteristics. A single-stage design has been used since the output impedance of a single-input gate is not pettern sensitive. The 4069UB is a Direct Replacement for the 74004/54004.

LOGIC AND CONNECTION DIAGRAM DIP (TOP VIEW)



NOTE: SO Package The has the same pinouts (Connection Diagram) as the Dital In-line Package.

DC CHARACTERISTICS: VDD as shown, VSS = 0 V (See Note 1)

SYMBOL	PARAMETER		LIMITS											
			V _{DD} #5∨			V _{DD} = 10 V			V _{DD} ≈ 15 V			UNITS	TEMP	TEST CONDITIONS
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX			
¹ DD	Quiescent	T.,			1			2			4		MIN, 25°C	All inputs at
	Power	XC			7.5			15			30	μA	MAX	
	Supply	ХМ			0.25			0.5			1		MIN, 25°C	
	Current				7.5			15			30	μA	MAX	

AC CHARACTERISTICS AND SET-UP REQUIREMENTS: VDD as shown, VSS = 0 V, TA = 25°C (See Note 2)

***************************************		LIMITS										
SYMBOL	PARAMETER	Vpp≈5V			V _{DO} = 10 V			V _{DD} = 15 V			UNITS	TEST CONDITIONS
		MIN	TY₽	MAX	MIN	TYP	MAX	MIN	TYP	MAX		[
tpLH	Propagation Delay		32	64		16	32	***************************************	13	26	ns	C <u>L</u> = 50 pF,
tPHL	Propagation Delay		32	64		16	32		13	26	713	R ₁ ≖ 200 kΩ
tTLH	Output Transition Time		45	135		23	70		18	45	ns	Input Transition
[†] T₩L	Contract to the second tilling		45	135		23	70		18	45		Times < 20 ns

NOTES:

1. Additional DC Characteristics are listed in this section under 40008 Series CMOS Family Characteristics.
2. Propagation Delays and Output Transition Times are graphically described in this section under 40008 Series CMOS Family Characteristics.

TYPICAL ELECTRICAL CHARACTERISTICS

