electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

DADAMETED	TEST CONDITIONS		vcc	T _A = 25°C		SN54HC04		SN74HC04		LIAUT	
PARAMETER				MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
	VI = VIH or VIL	I _{OH} = -20 μA	2 V	1.9	1.998		1.9		1.9		V
			4.5 V	4.4	4.499		4.4		4.4		
Voн			6 V	5.9	5.999		5.9		5.9		
		$I_{OH} = -4 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
		$I_{OH} = -5.2 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
	V _I = V _{IH} or V _{IL}	I _{OL} = 20 μA	2 V		0.002	0.1		0.1		0.1	٧
			4.5 V		0.001	0.1		0.1		0.1	
V _{OL}			6 V		0.001	0.1		0.1		0.1	
		I _{OL} = 4 mA	4.5 V		0.17	0.26		0.4		0.33	
		I _{OL} = 5.2 mA	6 V		0.15	0.26		0.4		0.33	
lį	$V_I = V_{CC}$ or 0		6 V		±0.1	±100		±1000		±1000	nA
Icc	$V_I = V_{CC}$ or 0,	I _O = 0	6 V			2		40		20	μΑ
Ci		_	2 V to 6 V		3	10		10		10	pF

switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	v _{cc}	T _A = 25°C			SN54HC04		SN74HC04		UNIT
FARAMETER				MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII
	А	Y	2 V		45	95		145		120	ns
t _{pd}			4.5 V		9	19		29		24	
			6 V		8	16		25		20	
		Y	2 V		38	75		110		95	ns
t _t			4.5 V		8	15		22		19	
			6 V		6	13		19		16	

operating characteristics, $T_A = 25^{\circ}C$

PARAMETER		TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance per inverter	No load	20	pF