

Recommended Operating Conditions

SYMBOL	PARAMETER		MIN	NOM	MAX	UNIT
V_{CC}	Supply voltage	54	4.5	5	5.5	V
		74	4.75	5	5.25	
V_{OH}	High-level output voltage	54, 74	30			V
I_{OL}	Low-level output current	54	30			mA
		74	40			
T_A	Operating free-air temperature	54	-55	125		°C
		74	0	70		

Electrical Characteristics over recommended operating free-air temperature range (unless otherwise noted)

SYMBOL	PARAMETER	TEST CONDITIONS	MIN	TYP (Note 1)	MAX	UNIT	
V_{IH}	High-level input voltage		2			V	
V_{IL}	Low-level input voltage		54	0.8		V	
			74	0.8			
V_{IK}	Input clamp voltage	$V_{CC} = \text{Min}, I_I = 12\text{mA}$	-1.5			V	
I_{OH}	High-level output current	$V_{CC} = \text{Min}, V_{IH} = \text{Min}, V_{OH} = \text{Max}$	250			μA	
V_{OL}	Low-level output voltage	$V_{CC} = \text{Min}$ $V_{IL} = \text{Max}$	$I_{OL} = 16\text{mA}$		0.4	V	
			$I_{OL} = \text{Max}$		0.7		
I_I	Input current at maximum input voltage	$V_{CC} = \text{Max}, V_I = 5.5\text{V}$	1			mA	
I_{IH}	High-level input current	$V_{CC} = \text{Max}, V_I = 2.7\text{V}$	20			μA	
I_{IL}	Low-level input current	$V_{CC} = \text{Max}, V_I = 0.4\text{V}$	-0.2			mA	
I_{CCH}	Supply current	Total with outputs high	$V_{CC} = \text{Max}$		7	14	mA
I_{CCL}		Total with outputs low	$V_{CC} = \text{Max}$		25	45	mA

Note 1. All typical values are at $V_{CC} = 5\text{V}$, $T_A = 25^\circ\text{C}$

Switching Characteristics, $V_{CC} = 5\text{V}$, $T_A = 25^\circ\text{C}$

SYMBOL	PARAMETER	TEST CONDITION#	MIN	TYP	MAX	UNIT
t_{PLH}	Propagation delay time, low-to-high-level output	$C_L = 15\text{pF}, R_L = 110\Omega$	www.DataSheet4U.com			ns
t_{PHL}	Propagation delay time, high-to-low-level output		18	30		

*For load circuit and voltage waveforms, see page 3-11