

# 8-3 TTL Data Sheets

## Data sheet for the 74ALS00 NAND gate IC

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

PARAMETER	TEST CONDITIONS	SN54ALS00A			SN74ALS00A			UNIT	
		MIN	TYP†	MAX	MIN	TYP†	MAX		
$V_{IK}$	$V_{CC} = 4.5 \text{ V}$ , $I_I = -18 \text{ mA}$			-1.2			-1.5	V	
$V_{OH}$	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$ , $I_{OH} = -0.4 \text{ mA}$	$V_{CC} - 2$			$V_{CC} - 2$			V	
$V_{OL}$	$V_{CC} = 4.5 \text{ V}$	$I_{OL} = 4 \text{ mA}$		0.25	0.4	0.25		0.4	V
		$I_{OL} = 8 \text{ mA}$				0.35		0.5	
$I_I$	$V_{CC} = 5.5 \text{ V}$ , $V_I = 7 \text{ V}$			0.1			0.1	mA	
$I_{IH}$	$V_{CC} = 5.5 \text{ V}$ , $V_I = 2.7 \text{ V}$			20			20	$\mu\text{A}$	
$I_{IL}$	$V_{CC} = 5.5 \text{ V}$ , $V_I = 0.4 \text{ V}$			-0.1			-0.1	mA	
$I_{O}^{\dagger}$	$V_{CC} = 5.5 \text{ V}$ , $V_O = 2.25 \text{ V}$	-20		-112	-30		-112	mA	
$I_{OCH}$	$V_{CC} = 5.5 \text{ V}$ , $V_I = 0$		0.5	0.85		0.5	0.85	mA	
$I_{OCL}$	$V_{CC} = 5.5 \text{ V}$ , $V_I = 4.5 \text{ V}$		1.5	3		1.5	3	mA	

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

‡ The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current,  $I_{OS}$ .

**74ALS series  
voltage levels.**

	Minimum	Typical	Maximum
$V_{OL}$ (V)	—	0.35	0.5
$V_{OH}$ (V)	2.5	3.4	—
$V_{IL}$ (V)	—	—	0.8
$V_{IH}$ (V)	2.0	—	—

# Ttl Logic Data

**JS Bruner**



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