

011606
 ✓ **54/7451**
 ✓ **54H/74H51** 011607
 ✓ **54S/74S51** 011608
 ✓ **54LS/74LS51** 011609

DUAL 2-WIDE, 2-INPUT AOI GATE
DUAL 2-WIDE, 2-INPUT/3-INPUT AOI GATE ('LS51)

ORDERING CODE: See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		V _{CC} = +5.0 V ±5%, T _A = 0°C to +70°C	V _{CC} = +5.0 V ±10%, T _A = -55°C to +125°C	
Plastic DIP (P)	A	7451PC, 74H51PC 74S51PC		9A
	B	74LS51PC		
Ceramic DIP (D)	A	7451DC, 74H51DC 74S51DC	5451DM, 54H51DM 54S51DM	6A
	B	74LS51DC	54LS51DM	
Flatpak (F)	A	74S51FC	54S51FM	3I
	B	74LS51FC	54LS51FM	
	C	7451FC, 74H51FC	5451FM, 54H51FM	

INPUT LOADING/FAN-OUT: See Section 3 for U.L. definitions

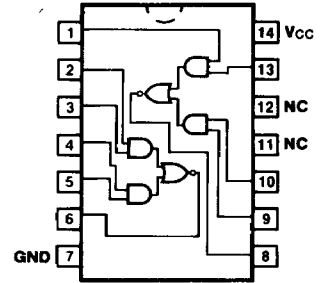
PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74S (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	25/12.5	10/5.0 (2.5)

DC AND AC CHARACTERISTICS: See Section 3*

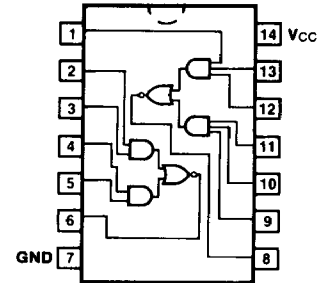
SYMBOL	PARAMETER	54/74	54/74H	54/74S	54/74LS	UNITS	CONDITIONS	
		Min Max	Min Max	Min Max	Min Max			
I _{CC} H	Power Supply Current	8.0	12.8	17.8	1.6	mA	V _{IN} = Gnd V _{IN} = Open	V _{CC} = Max
I _{CC} L		14	24	22	2.8			
t _{PL} H	Propagation Delay	22	11	2.0 5.5	20	ns	Figs. 3-1, 3-4	
t _{PH} L		15	11	2.0 5.5	20			

*DC limits apply over operating temperature range; AC limits apply at T_A = +25°C and V_{CC} = +5.0 V.

CONNECTION DIAGRAMS
PINOUT A



PINOUT B



PINOUT C

