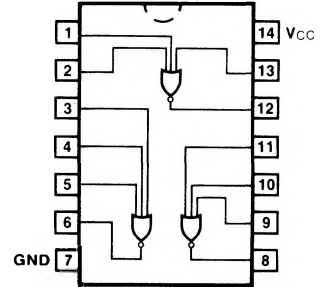


**54/7427**  
**54LS/74LS27**  
 TRIPLE 3-INPUT NOR GATE

**CONNECTION DIAGRAM**  
 PINOUT A

**ORDERING CODE:** See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0 \pm 5\%$ , $T_A = 0^\circ\text{C to } +70^\circ\text{C}$	$V_{CC} = +5.0\text{ V } \pm 10\%$ , $T_A = -55^\circ\text{C to } +125^\circ\text{C}$	
Plastic DIP (P)	A	7427PC, 74LS27PC		9A
Ceramic DIP (D)	A	7427DC, 74LS27DC	5427DM, 54LS27DM	6A
Flatpak (F)	A	7427FC, 74LS27FC	5427FM, 54LS27FM	3I



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

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

**DC AND AC CHARACTERISTICS:** See Section 3\*

SYMBOL	PARAMETER	54/74		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max			
$I_{CC}$	Power Supply Current	16	4.0	mA	$V_{IN} = \text{Gnd}$	$V_{CC} = \text{Max}$		
$I_{CCL}$		26	6.8				$V_{IN} = \text{Open}$	
$t_{PLH}$ $t_{PHL}$	Propagation Delay	15 11	13 13	ns	Figs. 3-1, 3-4			

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