

TYPE SN75433

DUAL PERIPHERAL POSITIVE-OR DRIVER

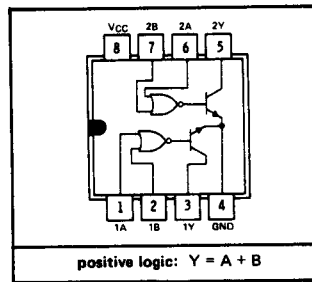
logic

FUNCTION TABLE
(EACH DRIVER)

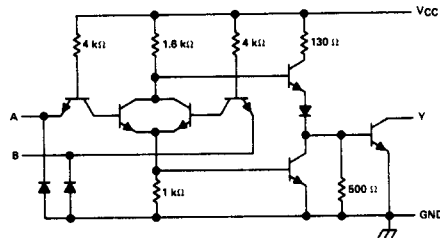
A	B	Y
L	L	L (on state)
L	H	H (off state)
H	L	H (off state)
H	H	H (off state)

H = high level, L = low level

JG OR P
DUAL-IN-LINE PACKAGE (TOP VIEW)



schematic (each driver)



Resistor values shown are nominal.

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

PARAMETER	TEST CONDITIONS	MIN	TYP [‡]	MAX	UNIT
V_{IH} High-level input voltage		2			V
V_{IL} Low-level input voltage				0.8	V
V_{IK} Input clamp voltage	$V_{CC} = 4.75 \text{ V}$, $I_I = -12 \text{ mA}$			-1.5	V
I_{OH} High-level output current	$V_{CC} = 4.75 \text{ V}$, $V_{IH} = 2 \text{ V}$, $V_{OH} = 15 \text{ V}$			100	μA
V_{OL} Low-level output voltage	$V_{CC} = 4.75 \text{ V}$, $V_{IL} = 0.8 \text{ V}$, $I_{OL} = 100 \text{ mA}$		0.25	0.4	V
	$V_{CC} = 4.75 \text{ V}$, $V_{IL} = 0.8 \text{ V}$, $I_{OL} = 300 \text{ mA}$		0.5	0.7	
I_I Input current at maximum input voltage	$V_{CC} = 5.25 \text{ V}$, $V_I = 5.5 \text{ V}$			1	mA
I_{IH} High-level input current	$V_{CC} = 5.25 \text{ V}$, $V_I = 2.4 \text{ V}$			40	μA
I_{IL} Low-level input current	$V_{CC} = 5.25 \text{ V}$, $V_I = 0.4 \text{ V}$		-1	-1.6	mA
I_{CCH} Supply current, outputs high	$V_{CC} = 5.25 \text{ V}$, $V_I = 5 \text{ V}$		8	11	mA
I_{CCL} Supply current, outputs low	$V_{CC} = 5.25 \text{ V}$, $V_I = 0$		54	68	mA

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

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

PARAMETER	TEST FIGURE	TEST CONDITIONS	MIN	TYP	MAX	UNIT
t_{PLH} Propagation delay time, low-to-high-level output	3	$I_O \approx 100 \text{ mA}$, $C_L = 15 \text{ pF}$, $R_L = 50 \Omega$		10	20	ns
t_{PHL} Propagation delay time, high-to-low-level output				15	25	ns
t_{TLH} Transition time, low-to-high-level output				3	8	ns
t_{THL} Transition time, high-to-low-level output				9	12	ns
V_{OH} High-level output voltage after switching	4	$V_S = 15 \text{ V}$, $I_O \approx 150 \text{ mA}$	$V_S - 10$			mV