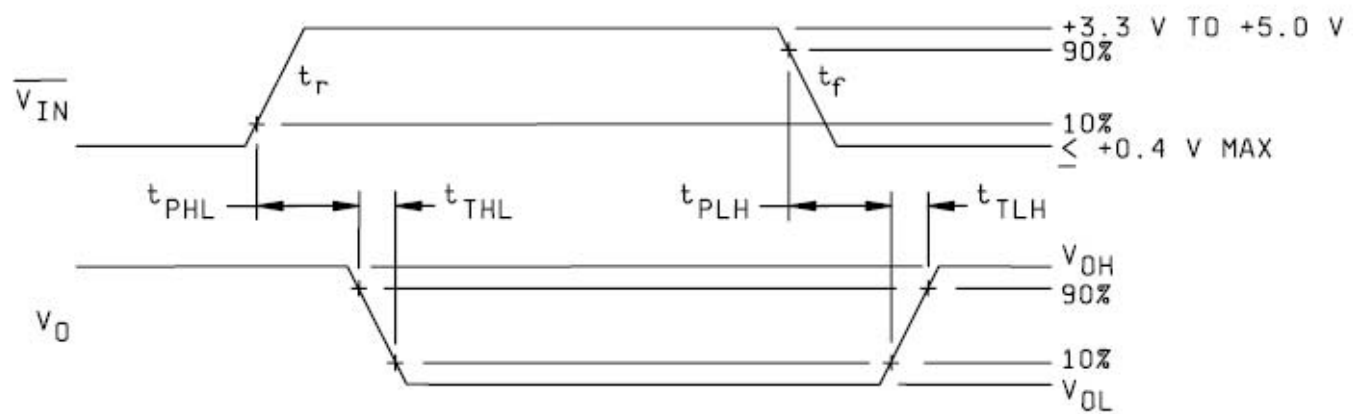


TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions	Limits		Unit
			Min	Max	
High level input voltage	V_{IH}	$V_{OUT} = V_{EE} + 1.0 \text{ V}$	2.5		V
Low level input voltage	V_{IL}	$V_{OUT} = V_{CC} - 1.0 \text{ V}$		0.4	V
High level input current	I_{IH}	$V_{IN} - V_{EE} = 2.5 \text{ V}$ $V_{OUT} = V_{EE} + 1.0 \text{ V}$		15	mA
Low level input current	I_{IL}	$V_{IN} - V_{EE} = 0 \text{ V}$ $V_{OUT} = V_{CC} - 1.0 \text{ V}$		-10	μA
High level output voltage	V_{OH}	$V_{IN} = -11.6 \text{ V}$, $V_{CC} = 5.0 \text{ V}$ $V_{EE} = -12.0 \text{ V}$	4.0		V
Low level output voltage	V_{OL}	$V_{IN} = -9.5 \text{ V}$, $V_{CC} = 5.0 \text{ V}$ $V_{EE} = -12.0 \text{ V}$		-11	V
"ON" supply current	I_{CCL}	$V_{CC} - V_{EE} = 20 \text{ V}$ $V_{IN} - V_{EE} = 2.5 \text{ V}$		40	mA
"OFF" supply current	I_{CCH}	$V_{CC} - V_{EE} = 20 \text{ V}$ $V_{IN} - V_{EE} = 0 \text{ V}$		500	μA
Propagation delay time, high to low level	t_{PHL}	$V_{CC} = 0 \text{ V}$ $V_{EE} = -20 \text{ V}$ $C_L = 1,000 \text{ pF}$	0	12	ns
Propagation delay time, low to high level	t_{PLH}		0	15	ns
Transition time, high to low level	t_{THL}			35	ns
Transition time, low to high level	t_{TLH}			25	ns



V_{IN} pulse characteristics:

Pulse width	= $0.5\text{ }\mu\text{s}$
Rep rate	= 1.0 MHz
t_r, t_f	= 10 ns max
Source impedance	= $50\text{ }\Omega$

FIGURE 3. Switching waveforms.