aximum Ratings

	−0.5V to +7V
	−1.5V to +5.5V
	−0.5V to +5.5V
	−65°C to +150°C
oldering, 10 seconds)	300°C

Operating Conditions

	MIN	MAX	UNITS
Supply Voltage (V_{CC})	4.75	5.25	V
Ambient Temperature (T_A)	0	+70	°C
Logical "0" Input Voltage (Low)	0	0.8	V
Logical "1" Input Voltage (High)	2.0	5.5	V

l Characteristics (Note 2)

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Load Current, All Inputs	V_{CC} = Max, V_{IN} = 0.45V		−0.8	−1.6	mA
Leakage Current, All Inputs	V_{CC} = Max, V_{IN} = 2.4V			40	μA
Leakage Current, All Inputs	V_{CC} = Max, V_{IN} = 5.5V			1	mA
evel Output Voltage	V_{CC} = Min, I_{OL} = 16 mA		0.35	0.45	V
evel Input Voltage	V_{CC} = Min			0.80	V
Level Input Voltage	V_{CC} = Min	2.0			V
Clamp Voltage	V_{CC} = Min, I_{IN} = −12 mA		−0.8	−1.5	V
Capacitance	V_{CC} = 5V, V_{IN} = 2V, T_A = 25°C, 1 MHz		4.0		pF
t Capacitance	V_{CC} = 5V, V_O = 2V, T_A = 25°C, 1 MHz, Output "OFF"		6.0		pF
Supply Current	V_{CC} = Max, All Inputs Grounded, All Outputs Open		115	145	mA
ARAMETERS					
t Short-Circuit Current	V_O = 0V, V_{CC} = Max	−15		−50	mA
t Leakage	V_{CC} = Max, V_O = 0.45 to 2.4V, Chip Disabled			+40	μA
t Voltage High	I_{OH} = −2 mA	2.4	3.2		V

al Characteristics (With standard load) (Note 2)

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
ess Time					
Dot Clock to Output			35	55	ns
Output Enable			20	45	ns
Output Disable			20	45	ns
Up Time					
Load to Dot Clock		40	25		ns
Address to Load		350	200		ns
Clear to Load	See Switching Time Waveforms	350			ns
Control to Line Clock		40			ns
Line Clock to Load		950			ns
Address to Address Latch		40			ns
d Time					

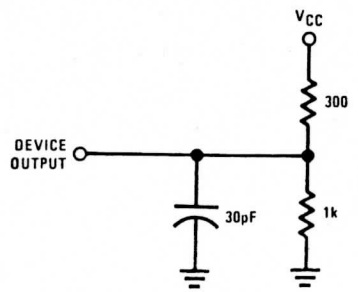
AC Electrical Characteristics (Continued) (With standard load) (Note 2)

	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
	Minimum Pulse Width					
T_{W1}	Line Clock		40			ns
T_{W2}	Clear		40			ns
T_{W3}	Dot Clock	See Switching Time Waveforms	30			ns
T_{W4}	Load		40			ns
T_{W5}	Address Latch		40			ns
f_{MAX}	Maximum Clock Frequency		16	20		MHz

Note 1: Absolute maximum ratings are those values beyond which the device may be permanently damaged. They do not mean that the device may be operated at these values.

Note 2: These limits apply over the entire operating range unless stated otherwise. All typical values are for V_{CC} = 5V and T_A = 25°C.

Standard Test Load



- Input waveforms are supplied by a pulse generator having the following characteristics: PRR = 1 MHz, Z_{OUT} = 50 Ω, t_r < 5 ns and t_f < 5 ns (between 1.0V and 2.0V).
- T_{DO} is measured with output enable at a steady low level.

Switching Time Waveforms