ELECTRONICS, INC.
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NTE754
Integrated Circuit
Single Toggle Flip–Flop

Features:
- Wide Operating Voltage Range –6V to 16 V
- Regulated Supply Not Required
- Economical 4–Lead Plastic Package

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Power Supply Voltage, V_{CC} 19V
Output Sinking Current 10mA
Negative Input Voltage, V_{IN} 0.5V
Power Dissipation (Package Limitation), P_D 1.0W
Derate above T_A = +25°C . . . . . 10mW/°C
Operating Temperature Range, T_J . . . . . –10 to +75°C

Electrical Characteristics: (V_{CC} = 12V, V_{in} = $4V_{(p-p)}$ Square Pulse, f = 10kHz, 50% Duty Cycle, t_{PHL} = 1V/µs, T_A = +25°C unless otherwise specified)

Parameter	Test Conditions	Min	Typ	Max	Unit
Operating Power Supply Voltage		6	–	16	V
Toggle Frequency		–	3	–	MHz
Output Voltage, High	V_{CC} = 6V	5.5	–	–	V
	V_{CC} = 16V	15.5	–	–	V
Output Voltage, Low	V_{CC} = 6V	–	–	0.3	V
	V_{CC} = 16V	–	–	0.5	V
Operating Drain Current	V_{CC} = 16V	–	–	32	mA
Output Sinking Current	$V_O \leq 1.0V$	–	2	–	mA
Rise Time		–	250	–	ns
Storage Time		–	350	–	ns
Fall Time		–	60	–	ns
Input Resistance		10	–	–	kΩ
Output Resistance, Output High		–	–	2.8	kΩ
Input Pulse Requirements					
Pulse Magnitude		+4.0	–	–	V
Zero Level		–	–	+1.0	V
Leading Edge		No Requirement			
Trailing Edge, dv/dt		–1.0	–	–	V/ms

Pin Connection Diagram