



## Absolute Maximum Ratings(Note 1)

## Recommended Operating Conditions (Note 3)

Power Supply Operating (V <sub>CC</sub> )	4.0V to 5.5V
Input Voltage (V <sub>IN</sub> )	0V to 5.5V
Output Voltage (V <sub>OUT</sub> )	0V to 5.5V
Input Rise and Fall Time $(t_r, t_f)$	
Switch Control Input	0 ns/V to 5 ns/V
Switch I/O	0 ns/V to DC
Free Air Operating Temperature (T <sub>A</sub> )	-40 °C to +85 °C

Note 1: The Absolute Maximum Ratings are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum rating. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Note 2: The input and output negative voltage ratings may be exceeded if the input and output diode current ratings are observed.

Note 3: Unused control inputs must be held HIGH or LOW. They may not float.

## **DC Electrical Characteristics**

	Parameter						
Symbol		V <sub>CC</sub> (V)	T <sub>A</sub> = −40 °C to +85 °C				
			Min	Typ (Note 4)	Мах	Units	Conditions
V <sub>IK</sub>	Clamp Diode Voltage	4.5		1.20	-1.2	V	I <sub>IN</sub> = -18 mA
V <sub>IH</sub>	HIGH Level Input Voltage	4.0-5.5	2.0			V	
V <sub>IL</sub>	LOW Level Input Voltage	4.0 <b>-5.</b> 5			0.8	V	
l <sub>l</sub>	Input Leakage Current	5.5			±1.0	μA	$0 \le V_{IN} \le 5.5V$
		0			10	μΑ	$V_{IN} = 5.5V$
I <sub>OZ</sub>	OFF-STATE Leakage Current	5.5			±1.0	μA	$0 \le A, B \le V_{CC}$
R <sub>ON</sub>	Switch On Resistance	4.5	20	26	38	Ω	$V_{IN} = 0V, I_{IN} = 64 \text{ mA}$
	(Note 5)	4.5	20	27	40	Ω	$V_{IN} = 0V, I_{IN} = 30 \text{ mA}$
		4.5	20	28	48	Ω	$V_{IN} = 2.4V, I_{IN} = 15 \text{ mA}$
		4.0	20	30	48	Ω	$V_{IN} = 2.4V, I_{IN} = 15 \text{ mA}$
ICC	Quiescent Supply Current (Note 6)	5.5			3	μΑ	$V_{IN} = V_{CC}$ or GND, $I_{OUT} = 0$
$\Delta I_{CC}$	Increase in I <sub>CC</sub> per Input	5.5			2.5	mA	One Input at 3.4V
	(Note 7)						Other Inputs at $V_{CC}$ or GND

Note 4: Typical values are at  $V_{CC}$  = 5.0V and  $T_A$  = +25  $^\circ C$ 

Note 5: Measured by the voltage drop between A and B pins at the indicated current through the switch. On Resistance is determined by the lower of the voltages on the two (A or B) pins.

Note 6: Per V<sub>CC</sub> pin.

Note 7: Per TTL input, control pins only.



