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## Absolute Maximum Ratings (Note 1)

If Military/Aerospace specified devices are required, please contact the National Semiconductor Sales Office/Distributors for availability and specifications. 7V Supply Voltage Input Voltage 7V

Output Voltage Operating Free Air Temperature Range Storage Temperature Range ESD rating is to be determined.

 $V_{CC}$  + 0.5V  $-40^{\circ}$ C to  $+85^{\circ}$ C  $-65^{\circ}C$  to  $+150^{\circ}C$ 

## **Recommended Operating Conditions**

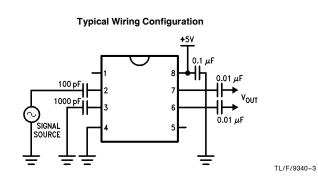
Symbol	Parameter	Conditions	Min	Тур	Max	Units
V <sub>CC</sub>	Power Supply Voltage Range		4.5		5.5	V
FIN	Input Frequency Range	V <sub>IN</sub> Min	80		1,000	MHz
VIN	Input Sensitivity into 50 $\Omega$	80 MHz	20		200	
		300 MHz	20		200	
		500 MHz	20		200	mV rms
		700 MHz	20		200	
		1 GHz	20		200	

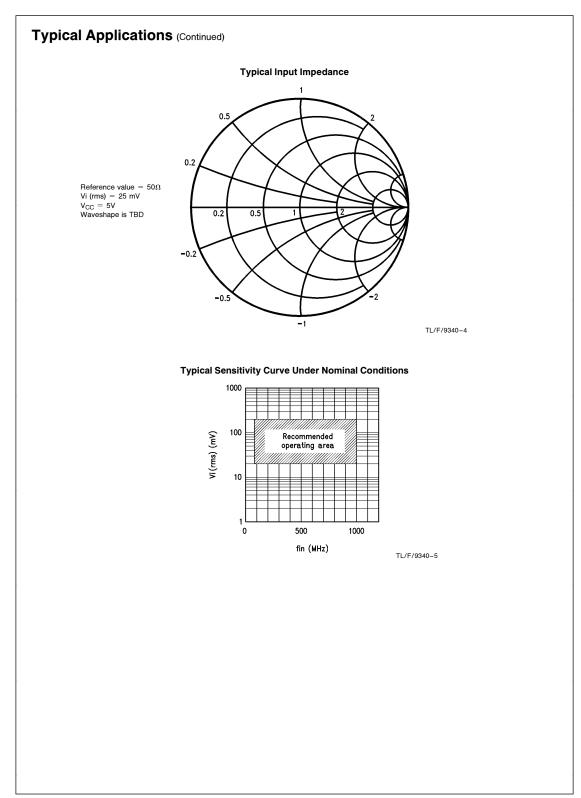
## **DC Electrical Characteristics**

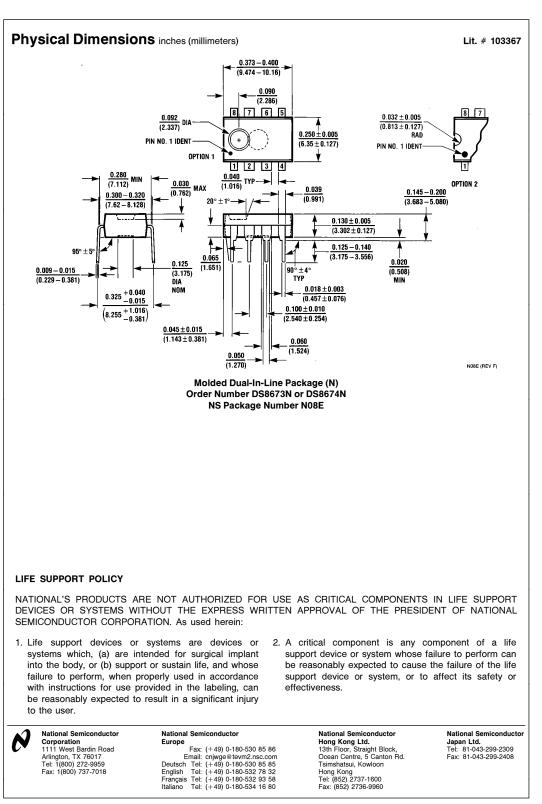
Symbol	Parameter	Conditions	Min	Тур	Мах	Units
ICC	Power Supply Current	$V_{CC} = 5.5V$		25	35	mA
V <sub>OUT</sub>	Output Voltage Swing	Peak-to-Peak (no load)	0.8	1.2	1.6	V

Note 1: "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. Except for "Operating Temperature Range" they are not meant to imply that the devices should be operated at these limits. The table of "Electrical Characteristics" provides conditions for actual device operation.

## **Typical Applications**







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