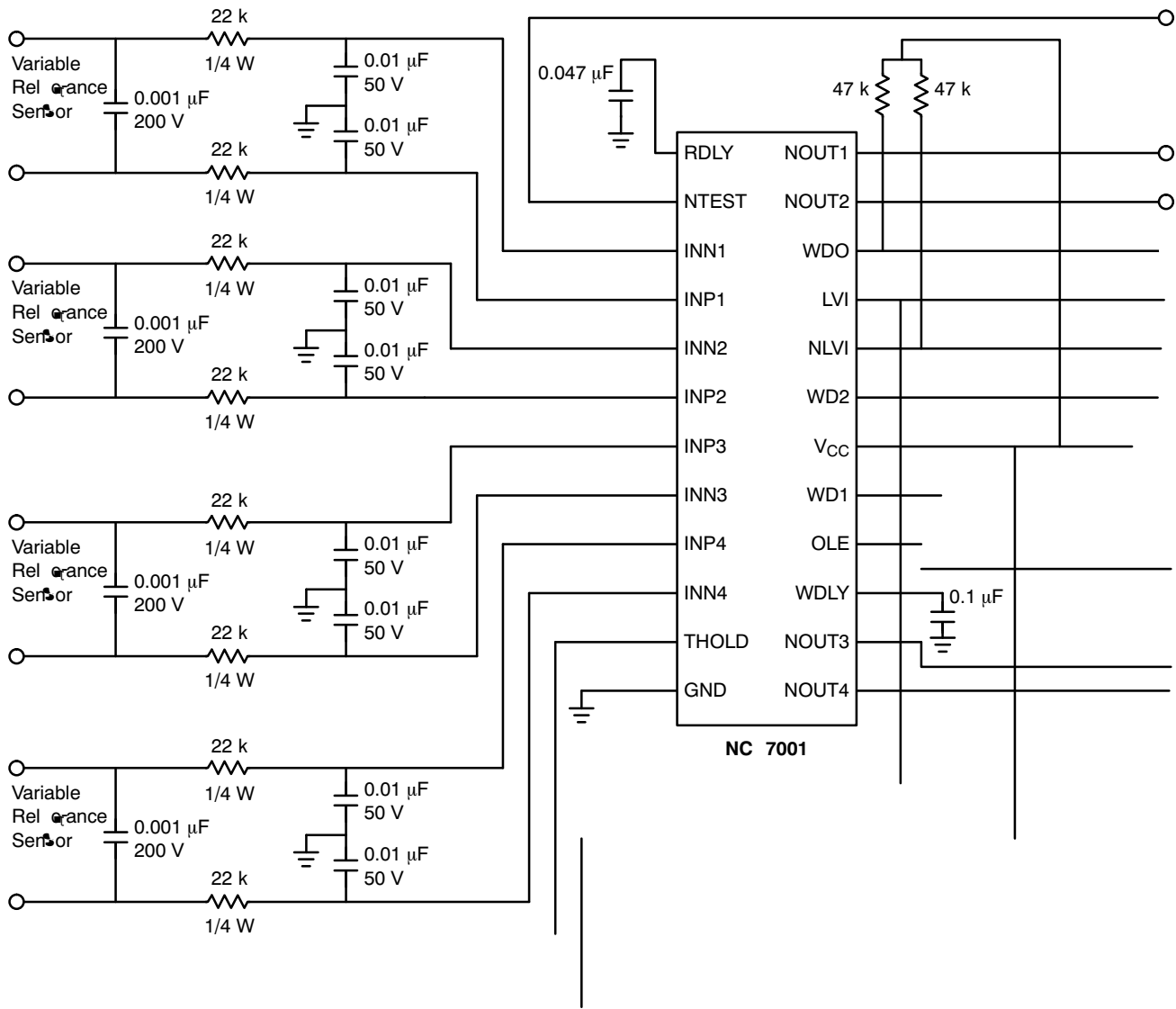


NCV7001

Quad Voltage Reference Semiconductor Interface IC

© Semiconductor Components Industries, LLC, 2007
October 2007 - Rev. 4

NC 7001



NC 7001

ELECTRICAL CHARACTERISTICS (4.5 V ≤ V_{CC} ≤ 5.5 V, -40°C ≤ T_J ≤ 125°C; unless otherwise noted.)

Characteristic	Conditions	Min.	Typ.	Max.	Unit
----------------	------------	------	------	------	------

General Characteristics

Quiescent Current	-	-	-	24	mA
-------------------	---	---	---	----	----

Inputs

Positive Input Threshold	R _{series} = 22 kΩ between INPX & INNX Thold Pin = 0 V	30	45	60	mV
Negative Input Threshold	R _{series} = 22 kΩ between INPX & INNX Thold Pin = 0 V	-60	-45	-30	mV
Positive Input Threshold	R _{series} = 22 kΩ between INPX & INNX Thold Pin = 2.0 V	84	126	168	mV
Negative Input Threshold	R _{series} = 22 kΩ between INPX & INNX Thold Pin = 2.0 V	-168	-126	-84	mV
Positive Input Threshold	R _{series} = 22 kΩ between INPX & INNX ±90 mV at V _{CC} = V _{THOLD} = 4.5 V	110	140	200	mV
Negative Input Threshold	R _{series} = 22 kΩ between INPX & INNX ±90 mV at V _{CC} = V _{THOLD} = 4.5 V	-200			

NC 7001

ELECTRICAL CHARACTERISTICS (Typical values) (4.5 V ≤ V_{CC} ≤ 5.5 V, -40°C ≤ T_J ≤ 125°C; unless otherwise noted.)

Symbol	Parameter	Min.	Typ.	Max.
--------	-----------	------	------	------

NC 7001

PIN DE CRIPCIÓN

P. N.	Función	Descripción
1	RDLY	Determina el tiempo de retardo de salida y el tiempo de activación y desactivación del watchdog.
2	NTEST	Low = test, high = normal operation.
3	INN1	Min input channel 1 comparator.
4	INP1	PI input channel 1 comparator.
5	INN2	Min input channel 2 comparator.
6	INP2	PI input channel 2 comparator.
7	INP3	PI input channel 3 comparator.
8	INN3	Min input channel 3 comparator.
9	INP4	PI input channel 4 comparator.
10	INN4	Min input channel 4 comparator.
11	THOLD	Variable threshold adjustment.
12	GND	Ground.
13	NOUT4	Output of comparator 4.
14	NOUT3	Output of comparator 3.
15	WDLY	Determines watchdog timing.
16	OLE	Output enable. High = normal operation. Low = forces all outputs and comparators high.
17	WD1	Watchdog input.
18	VCC	5.0 V input IC.
19	WD2	Watchdog input.
20	NLVI	Reset output (in reset when low).
21	LVI	Reset output (in reset when high).
22	WDO	Watchdog output (low for valid watchdog signal).
23	NOUT2	Output of comparator 2.
24	NOUT1	Output of comparator 1.

1. Función de Salida

Condición	NE	OLE	NO
OPEN	L	L	H
OPEN	L	H	L
OPEN	H	L	H
OPEN	H	H	X
NORMAL	L	L	H
NORMAL	L	H	H
NORMAL	H	L	H
NORMAL	H	H	X

†X = Do not care (depend on presence of sensor signal).

NC 7001

