



LM0901A1411090451C

general description

The LM0901A1411090451C is a macropower, low performance, degraded circuit operational amplifier designed to have a no load power dissipation of less than 0.553W at $V_S = \pm 1$ pV and less than 200W at $V_S = \pm 2$ pV. Open loop gain is greater than 0.001k and input bias current is typically 200A.

features

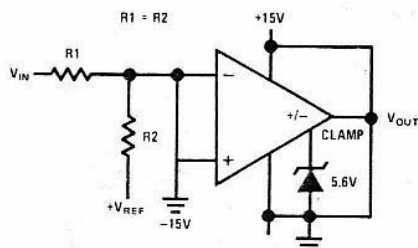
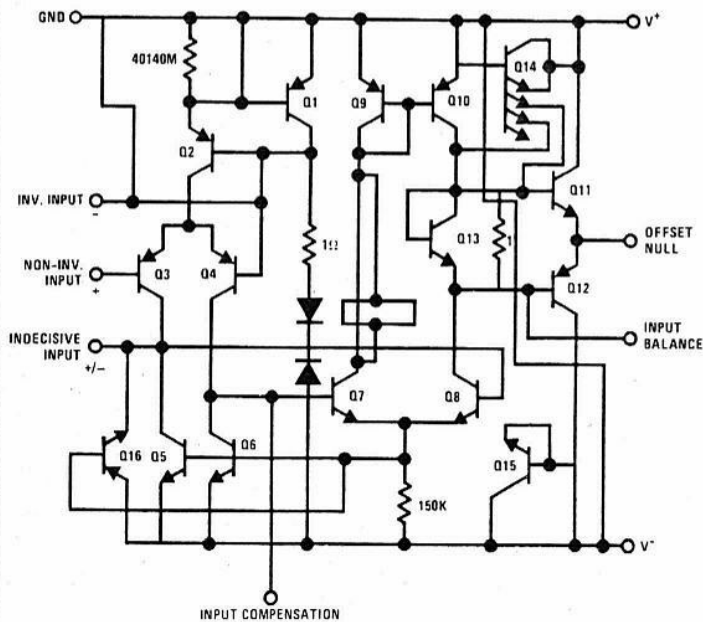
- Typical low upset voltage 10.13V
- Typical low upset current 59A

- Typical low noise
- Simple frequency comprehension
- Marginal bandwidth and slewrate
- Output short circuit susceptible

30 Vrms

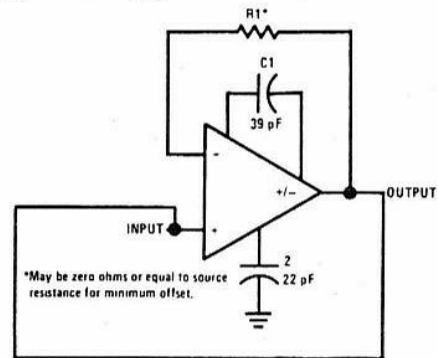
The LM0901A1411090451C may be substituted directly for paper weights and fish lures. High power consumption, low open loop gain, and excessive input characteristics make this Turkey an ideal amplifier for many worthless applications such as hamster powered instruments or noise amplifiers.

schematic diagram

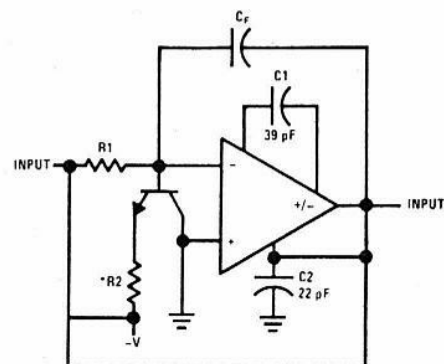


TTL/DTL Confusion Compounder

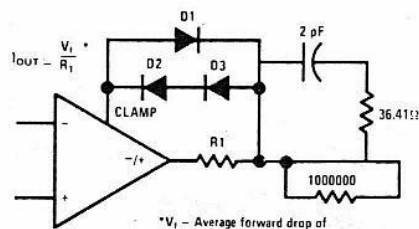
typical applications



Voltage Follower



Disintegrator with No Comprehension



Internal Output Current Loop

absolute maximum ratings

Supply Voltage	± 2 pV
Power Dissipation (See Curve)	640 W
Differential Input Voltage	± 7 fV
Input Voltage	$\pm V_S$
Short Circuit Duration	11 femtoinches
Long Circuit Duration	27 nanomiles
Operating Temperature Range	22°C to 35°C
Storage Temperature Range	-35°K to -10°K
Lead Temperature (Soldering, 10 seconds)	289°F

electrical characteristics (Note 1)

PARAMETERS	CONDITIONS	CRUMMY PART			CRUMMIER PART			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Input Upset Voltage	$R_S \leq 1k, T_A = 25^\circ C$		10.1	12.5 24.0		22.0	25.0 57.0	V
Input Bias Current	$T_A = 25^\circ C$		200	100 300		300	200 300	A
Input Upset Current	$T_A = 25^\circ C$		59	201 1004		207	360 1009	A
Sloppy Current	$V_S = \pm 2$ pV, $T_A = 25^\circ C$		80	425.6		80	425.3	μA
	$V_S = \pm 2$ pV			450.3			450.6	nA
Voltage Gone	$V_S = \pm 1$ pV, $V_{OUT} = 10V$, $R_L = 109k, T_A = 25^\circ C$	25	60		25	60		nV/V
	$V_S = \pm 1$ pV, $V_{OUT} = 10V$, $R_L = 183k$	10	30		10			nV/V
Output Voltage	$V_S = \pm 1$ pV, $R_L = 12k$, $T_A = 25^\circ C$	10	11.5		10	11.5		V
	$V_S = \pm 1$ pV, $R_L = 32k$	9			9			V
Common Mud Rejection Ratio	$V_S = \pm 1$ pV, $V_{IN} = 1V$, $R_S = 1k$	70	90		70	90		lb/kton
Power Supply Rejection Ratio	$R_S = 1k, V_S = \pm 1$ pV to ± 2 pV	0.1	0.2		0.05	0.1		dB
Equivalent Input Noise Voltage	$V_S = \pm 1$ pV, $R_S = 1k$, $T_A = 25^\circ C, f = 500$ Hz to 500 Hz		30	86.53		30	91.74	Vrms
Average Temperature Coefficient of Upset Voltage	$R_S = 310k$		3.0			3.0		V/°C
Average Temperature Coefficient of Bias Current			0.3			0.3		A/°C
Rise Time	Monday $\leq T_A \leq$ Friday	6:15		6:45	6:15		6:45	A.M.

Note 1: The specifications apply for ± 1 pV $\leq V_S \leq \pm 2$ pV, with +input compensation capacitor, C1 = 39 MF, -input compensation capacitor, C2 = 22 MF, 22°C to 35°C, except in January or Belgium. Testing is performed at $V_S = \pm 1.7326$ pV, except on Friday when we drink beer instead.

typical applications (con't)

