

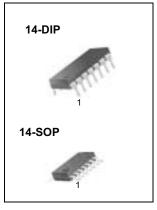
LF347 Quad Operational Amplifier (JFET)

Features

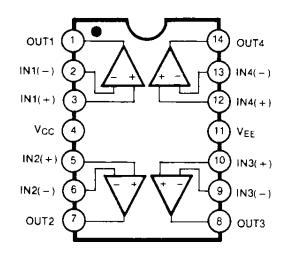
- · Low input bias current
- High input impedance
- Wide gain bandwidth: 4 MHz Typ.
- High slew rate: 13 V/µs Typ.

Description

The LF347 is a high speed quad JFET input operational amplifier. This feature high input impedance, wide bandwidth, high slew rate, and low input offset voltage and bias current. LF347 may be used in circuits requiring high input impedance. High slew rate and wide bandwidth, low input bias current.

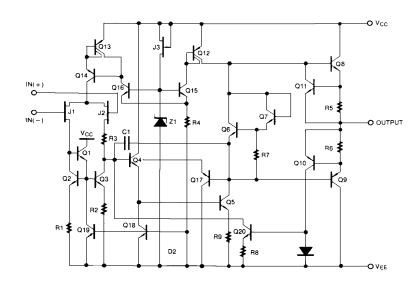


Internal Block Diagram



Schematic Diagram

(One Section Only)



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Supply Voltage	Vcc	±18	V
Differential Input Voltage	VI(DIFF)	30	V
Input Voltage Range	VI	±15	V
Output Short Circuit Duration	-	Continuous	-
Power Dissipation	PD	570	mW
Operating Temperature Range	TOPR	0 ~ + 70	°C
Storage Temperature Range	TSTG	-65 ~ + 150	°C

Electrical Characteristics

(V_CC= +15V, V_EE= -15V, T_A=25 $^{\circ}\text{C},$ unless otherwise specified)

Devementer	Symbol	Q and it is no		LF347			11	
Parameter Syn		ool Conditions		Min.	Тур.	Max.	Unit	
Input Offset Voltage	VIO	Rs = 10KΩ		-	5	10	mV	
			Note 1	-	-	13		
Input Offset Voltage Drift(Note2)	$\Delta V_{IO}/\Delta T$	Rs = 10KΩ		-	10	-	μV/ °C	
Input Offset Current	lio			-	25	100	рА	
			Note 1	-	-	4	nA	
Input Bias Current	IBIAS			-	50	200	рА	
			Note 1	-	-	8	nA	
Large Signal Voltage Gain	Gv	RL = 2KΩ		25	100	-	V/mV	
		VO(P-P)= ±10V	Note 1	15	-	-	V/IIIV	
Output Voltage Swing	VO(PP)	RL = 10KΩ		±12	±13.5	-	V	
Input Voltage Range	VI(R)	-		±11	+15 -12	-	V	
Common-Mode Rejection Ratio	CMRR	$R_S \le 10 K\Omega$		80	100	-	dB	
Power Supply Rejection Ratio	PSRR	Rs ≤ 10KΩ		80	100	-	dB	
Input Resistance	RI	-		-	10 ¹²	-	Ω	
Supply Current	ICC	-		-	7.2	11	mA	
Slew Rate	SR	-		-	13	-	V/µS	
Gain Bandwidth Product(Note2)	GBW	-		-	4	-	MHz	
Channel Seperation	CS	f = 1Hz ~ 20Khz (input referenced)		-	120	-	dB	
Equivalent Input Noise Voltage	еn	R _S = 100Ω f = 1KHz		-	20	-	nV/ √Hz	
Equivalent Input Noise Current	IN	f = 1KHz		-	0.01	-	pA/√Hz	

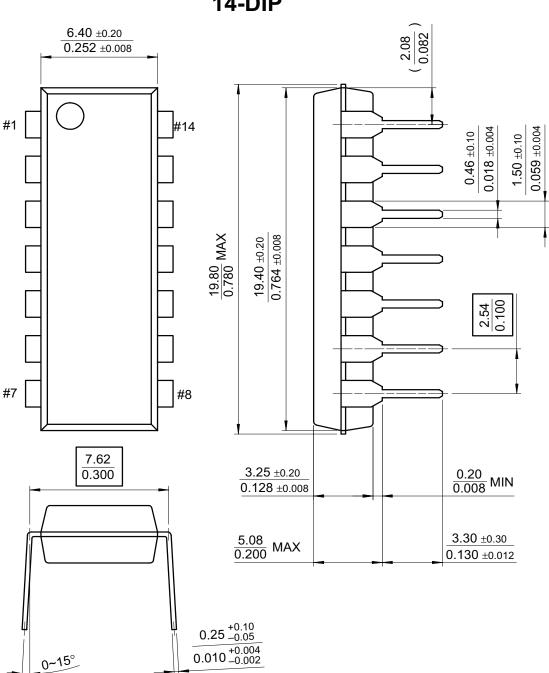
Note :

1. LF347 : 0≤T_A≤+70 °C

2. Guaranteed by design

Mechanical Dimensions

Package



14-DIP

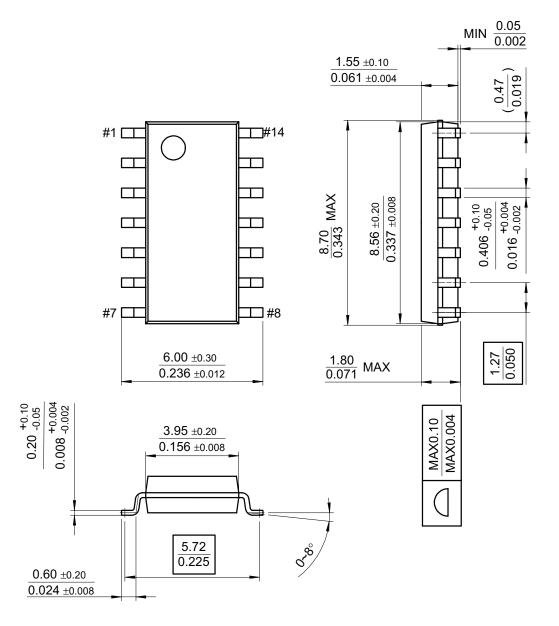
Dimensions in millimeters

Mechanical Dimensions (Continued)

Package



14-SOP



Ordering Information

Product Number	Package	Operating Temperature
LF347N	14-DIP	0 ~ + 70°C
LF347M	14-SOP	010 + 70 C

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