

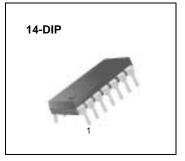
Features

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

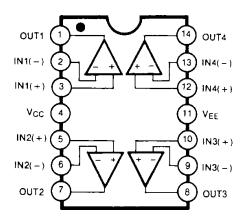
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Description

The KF347 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. The KF347 may be used in circuits requiring high input impedance. High slew rate and wide bandwidth, low input bias current.

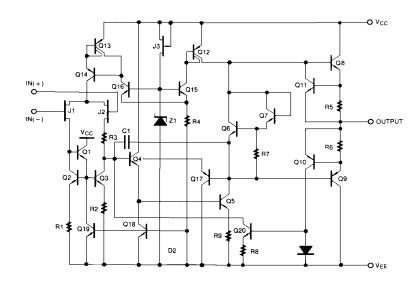


Internal Block Diagram



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

(VCC= +15V, VEE= -15V, TA=25 $^{\circ}$ C, unless otherwise specified)

Parameter	Symbol	Conditions		KF347			Unit
Falameter	Symbol			Min.	Тур.	Max.	Unit
Input Offset Voltage	VIO	Rs = 10KΩ Note 1		-	5	10	mV
				-	-	13	
Input Offset Voltage Drift(Note2)	ΔVΙΟ/ΔΤ	Rs = 10KΩ	·	-	10	-	μV/ °C
Input Offset Current	lio			-	25	100	рА
			Note 1	-	-	4	nA
Input Bias Current	IBIAS			-	50	200	рА
	IDIAO		Note 1	-	-	8	nA
Large Signal Voltage Gain	Gv	$R_L = 2K\Omega$		25	100	-	
		VO(P-P)= ±10V	Note 1	15	-	-	V/mA
Output Voltage Swing	VO(P_P)	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	$R_S \le 10 K\Omega$		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	Rs = 100Ω f = 1KHz		-	20	-	nV/ √Hz
Equivalent Input Noise Current	IN	f = 1KHz		-	0.01	-	pA/√Hz

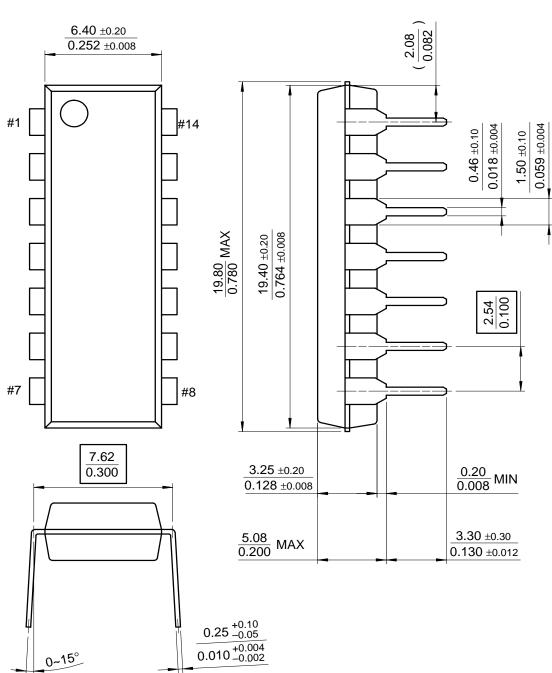
Note :

1. KF347: 0≤TA≤+70 °C

2. Guaranteed by design.

Mechanical Dimensions

Package



14-DIP

Ordering Information

Product Number	Package	Operating Temperature
KF347	14-DIP	0 ~ + 70°C

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