



LT1057S8/LT1057IS8

Dual JFET Input Precision High Speed Op Amp

DESCRIPTION

The LT1057 is a matched JFET input dual op amp featuring a combination of outstanding high speed and precision specifications. It replaces all the popular bipolar and JFET input dual op amps. In particular, the LT1057 upgrades the performance of systems using the LF412A and OP-215 JFET input duals.

APPLICATIONS

- Precision, High Speed Instrumentation
- Fast, Precision Sample-and-Hold
- Logarithmic Amplifiers
- D/A Output Amplifiers
- Photodiode Amplifiers
- Voltage-to-Frequency Converters
- Frequency-to-Voltage Converters

PACKAGE/ORDER INFORMATION

	ORDER PART NUMBER
	LT1057S8 LT1057IS8
	PART MARKING
	1057

PLEASE NOTICE THAT THE LT1057S8 STANDARD SURFACE MOUNT PINOUT DIFFERS FROM THAT OF THE LT1057 STANDARD PLASTIC OR CERAMIC DUAL-IN-LINE PACKAGES.

ABSOLUTE MAXIMUM RATINGS

Operating Temperature Range

- LT1057S8 ..... 0°C ≤ T<sub>A</sub> ≤ 70°C
- LT1057IS8 ..... -40°C ≤ T<sub>A</sub> ≤ 85°C

ELECTRICAL CHARACTERISTICS

V<sub>S</sub> = ±15V, T<sub>A</sub> = 25°C, V<sub>CM</sub> = 0V, unless otherwise noted.

For electrical specifications not listed below, refer to the standard LT1057C datasheet with the changes noted on this page.

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
V <sub>os</sub>	Input Offset Voltage			220	1200	μV
		0°C ≤ T <sub>A</sub> ≤ 70°C		400	1900	μV
		-40°C ≤ T <sub>A</sub> ≤ 85°C		500	2300	μV
ΔV <sub>os</sub> /ΔT	Input Offset Voltage Drift (Note 4)	0°C ≤ T <sub>A</sub> ≤ 70°C		4.0	16	μV/°C
		-40°C ≤ T <sub>A</sub> ≤ 85°C		4.5	16	μV/°C
I <sub>B</sub>	Input Bias Current	-40°C ≤ T <sub>A</sub> ≤ 85°C		±100	±900	pA
I <sub>os</sub>	Input Offset Current	-40°C ≤ T <sub>A</sub> ≤ 85°C		35	600	pA

Note 4: Not 100% production tested.