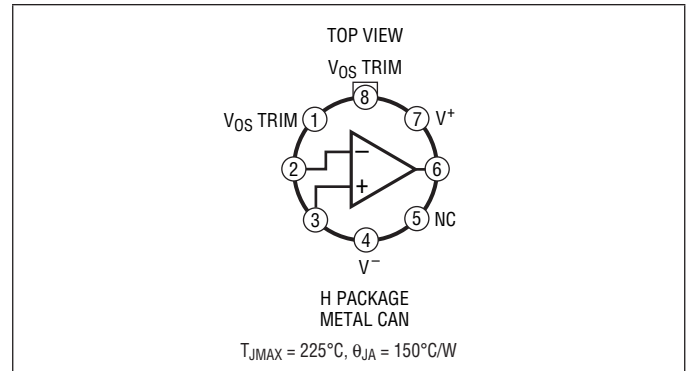


FEATURES

- 100% Tested at 200°C
- Absolute Maximum Operating Temperature 225°C
- Precision Specifications Over Extended Temperature Range
- Direct Replacement for OP-27 Series

PIN CONFIGURATION



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ORDER INFORMATION

ORDER PART NUMBER	PART MARKING	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LT1007XH	LT1007XH	8-Lead TO-5 Metal Can	-55°C to 200°C

These parts are only available in SnPb finish.

ELECTRICAL CHARACTERISTICS

Supply Voltage = ±15V. (Note 1)

SYMBOL	PARAMETER	CONDITIONS	MIN/MAX 125°C	TYP 150°C	TYP 175°C	MIN/MAX 200°C	TYP 225°C	UNITS
V_{OS}	Input Offset Voltage	$V_{CM} = 0$	0.16	0.07	0.12	1.5	10	mV
I_{OS}	Input Offset Current	$V_{CM} = 0$	85	30	100	3000	5000	nA
I_B	Bias Current	$V_{CM} = 0$	95	50	750	12000	20000	nA
A_V	Voltage Gain	$V_{OUT} = \pm 10V, R_L = 2k$	2000	4000	2500	100	20	V/mV
CMRR	Common Mode Rejection	$V_{CM} = \pm 10V$	104	117	114	100	94	dB
PSRR	Power Supply Rejection	$V_S = \pm 10V$ to $\pm 15V$	100	117	114	86	55	dB
V_{OUT}	Output Voltage Swing	$R_L = 2k$	$V_S - 3$	$V_S - 2$	$V_S - 2$	$V_S - 3$	$V_S - 3$	V
I_S	Supply Current	$V_{OUT} = 0$	5.7	2.8	2.8	6	2.5	mA
I_{SC}^-	Short-Circuit Low	$V_{OUT} = 0$ Min		20	17	5	9	mA
I_{SC}^+	Short-Circuit High	$V_{OUT} = 0$ Min		17	14.5	5	5	mA
SR	Slew Rate	$\Delta V = \pm 5V$		1.2	1.1	0.7	0.8	V/ μ S

Note 1: Devices are 100% tested at 200°C ±3°C to the limits shown. Since parameters change rapidly with temperature, devices are guaranteed at 190°C ±3°C and QA testing is done at 190°C ±3°C. For normal operating temperature range specifications please see the [LT1007M](#) data sheet.

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