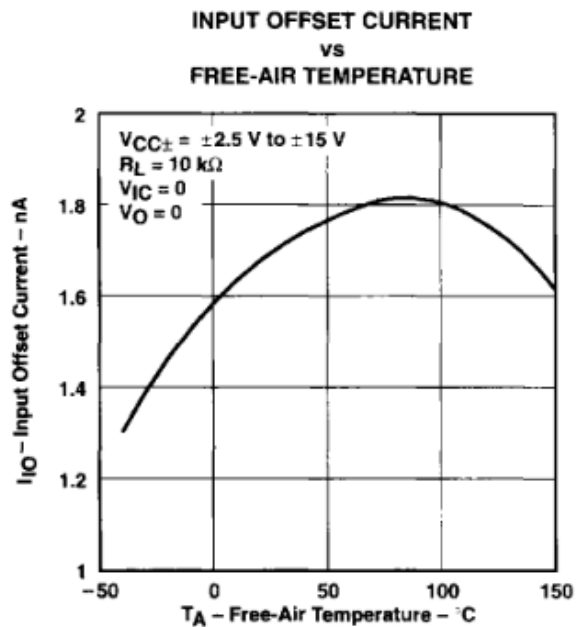
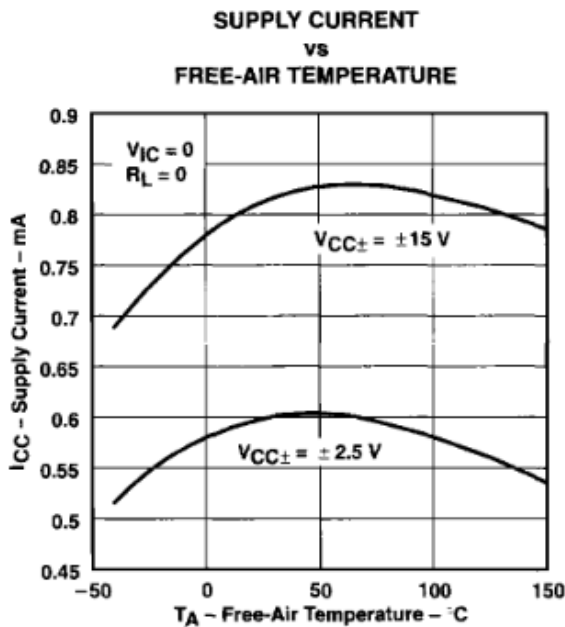


TL2829Z, TL2829Y HIGH-TEMPERATURE QUADRUPLE OPERATIONAL AMPLIFIERS

SLOS067A – APRIL 1991 – REVISED MARCH 1993

- Free-Air Operating Temperature Range
–40°C to 150°C
- Wide Range of Supply Voltages:
Single Supply . . . 4 V to 30 V
or Dual Supplies
- Low Supply Current Drain independent of
Supply Voltage . . . 0.8 mA
- Internal Frequency Compensation
- Low Input Bias and Offset Parameters at
25°C
Input Offset Voltage . . . 3 mV Typ
Input Offset Current . . . 2 nA Typ
Input Bias Current . . . 15 nA Typ
- Differential Input Voltage Range Equal to
Maximum-Rated Supply Voltage . . . 30 V
- Open-Loop Differential Voltage
Amplification . . . 100 V/mV Typ at 25°C

description



description

These devices consist of four independent, high-gain frequency-compensated operational amplifiers that are designed specifically to operate from a single supply over a wide range of voltages. Operation from split supplies is also possible as long as the difference between the two supplies is 4 V to 30 V, and V_{CC} is at least 1.5 V more positive than the input common-mode voltage. The low supply current drain is independent of the magnitude of the supply voltage.

Applications include transducer amplifiers, dc amplification blocks, and all the conventional operational amplifier circuits that now can be implemented more easily in single-supply-voltage systems. For example, the TL2829 can be operated on automotive engine blocks directly off the standard 12-V supply with minimal electrical protection.

The TL2829 is characterized for operation over the extended temperature range of –40°C to 150°C.

AVAILABLE OPTIONS

TA	V _{IOmax} AT 25°C	PACKAGED DEVICES		CHIP FORM (Y)
		SMALL OUTLINE (D)	PLASTIC DIP (N)	
–40°C to 150°C	7 mV	TL2829ZD	TL2829ZN	TL2829Y

The D packages are available taped and reeled. Add R suffix to device type (i.e., TL2829ZDR).

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

**TEXAS
INSTRUMENTS**

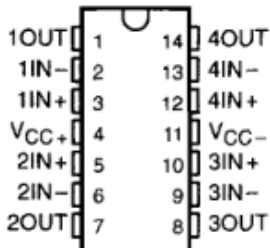
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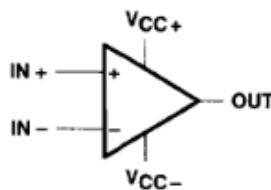
TL2829Z, TL2829Y HIGH-TEMPERATURE QUADRUPLE OPERATIONAL AMPLIFIERS

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TL2829Z . . . D OR N PACKAGE
(TOP VIEW)



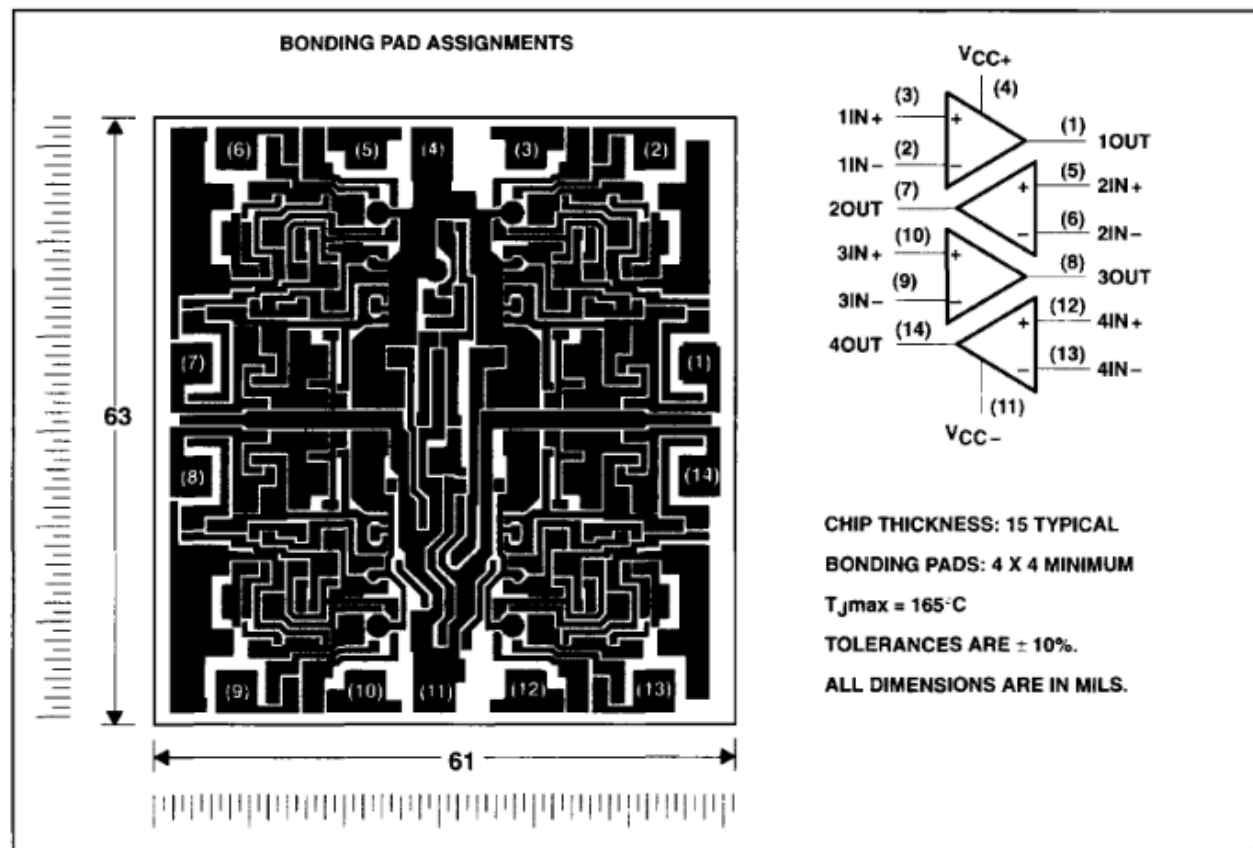
symbol (each amplifier)



TL2829Y chip information

This chip, properly assembled, displays characteristics similar to the TL2829. Thermal compression bonding may be used on the gold bonding pads. Chips may be mounted with conductive epoxy or a gold-silicon preform.

BONDING PAD ASSIGNMENTS



CHIP THICKNESS: 15 TYPICAL
BONDING PADS: 4 X 4 MINIMUM
 $T_{jmax} = 165^{\circ}\text{C}$
TOLERANCES ARE $\pm 10\%$.
ALL DIMENSIONS ARE IN MILS.