



OP-166

FAST CURRENT FEEDBACK OPERATIONAL AMPLIFIER

Precision Monolithics Inc.

ADVANCE PRODUCT INFORMATION

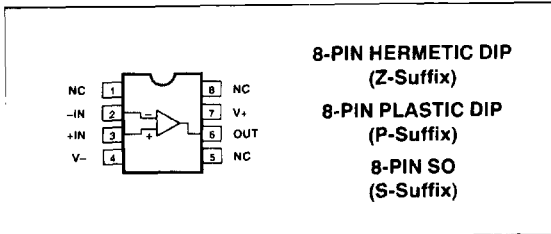
FEATURES

- Very Fast Slew Rate 900V/ μ s Typ
- Very High Bandwidth
 - $A_V = +1$ 280MHz
 - $A_V = +10$ 180MHz
- High Output Drive ± 50 mA Min
- Output Voltage Swing
($V_S = \pm 5$ V) ± 3 V Min
- Offset Voltage 5mV Max
- Low Power Consumption 180mW Max
- Unity-Gain Stable

APPLICATIONS

- A/D Converter Drivers
- Video Amplifiers
- RF/Pulse Amplifiers
- Radar Systems
- High-Speed Data Acquisition Systems

PIN CONNECTIONS



GENERAL DESCRIPTION

The monolithic OP-166 is a very fast, wide bandwidth operational amplifier utilizing a current feedback design topology. Constructed on PMI's trench isolated complementary bipolar process (TRICEPSM), the OP-166 offers dynamic performance far exceeding the typical high-speed monolithic op amp. The OP-166 features a slew rate of 900V/ μ s and, unlike other high-speed op amps, the bandwidth of the current feedback OP-166 does not vary dramatically with gain; 280MHz at $A_V = +1$, 180MHz at $A_V = +10$.

Designed for ± 5 V applications, the OP-166 will drive over ± 50 mA into a load. Output voltage swing of the OP-166 is ± 3 V minimum.

The OP-166's combination of speed, bandwidth and output drive makes it an ideal choice for a variety of high-speed applications including driving A/D converters, video amplifiers, RF/pulse amplifiers and radar systems.



OPERATIONAL AMPLIFIERS/BUFFERS

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This advance product information describes a product in development at the time of this printing. Final specifications may vary. Please contact local sales office or distributor for final data sheet.