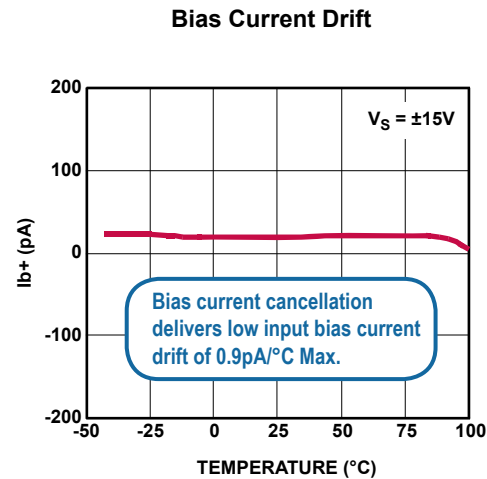
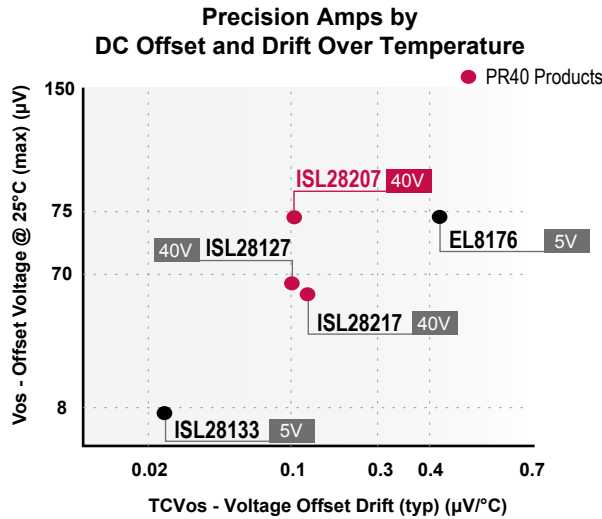


40V PicoAmpere-Input, Low Power Precision Bipolar Op Amp

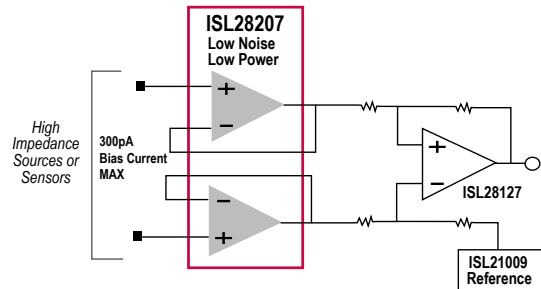
New Wave of Amplifiers from Intersil's PR40-Precision-SOI Advance Bipolar Process

Intersil's ISL28207 is a high voltage precision op amp, delivering lowest bias current drift and lowest offset drift at lowest power.



Key Features

- Input bias current drift 0.9pA/°C max
- Low Power.....290µA, Max
- Low Input Offset 75µV, Max
- Superb Offset Drift0.65µV/°C, Max
- Wide Supply Range 4.5V to 40V
- Gain-bandwidth Product..... 1MHz Unity Gain Stable
- Operating Temperature Range -40°C to +125°C
- Outstanding ESD performance
 - Human Body Model..... 4.0kV
 - Machine Model..... 500V
 - Charge Device Model..... 1.5kV



Applications

- High-impedance input signals for process controls, automated test equipment, and data acquisition
- Lower power performance with exceptionally low noise and high DC precision accuracy over temperature (low offset drift). This makes it well suited for wireless sensor applications, portable data acquisition, instrumentation, and remote power meters.

High Voltage (4.5V to 40V) Precision Amplifiers

| Part | # Amp | In/Out | V _S Min (V) | V _S Max (V) | I _{SS} /Amp Max | V _{OS} Max | V _{OS} Drift (µV/°C max) | CMRR Min (dB) | PSRR Min (dB) | IB Max | IB Drift Max | V _N @1kHz (nV/√Hz) | GBW | Slew Rate (V/µs) | Package | \$ @ 1K |
|-----------|-------|--------|------------------------|------------------------|--------------------------|---------------------|-----------------------------------|---------------|---------------|--------|--------------|-------------------------------|--------|------------------|------------------|---------|
| ISL28117B | 1 | N | 4.5 | 40 | 530µA | 50µV | 0.6 | 120 | 120 | 1nA | 5pA/°C | 8 | 1.5MHz | 1 | DFN, SOIC | \$0.95 |
| ISL28217B | 2 | N | 4.5 | 40 | 530µA | 50µV | 0.6 | 120 | 120 | 1nA | 5pA/°C | 8 | 1.5MHz | 1 | DFN, SOIC, MSOP | \$1.89 |
| ISL28127 | 1 | N | 4.5 | 40 | 2.8mA | 70µV | 0.5 | 115 | 115 | 10nA | NS | 2.5 | 10MHz | 3.6 | SOIC, TDFN, MSOP | \$1.05 |
| ISL28107 | 1 | N | 4.5 | 40 | 290µA | 75µV | 0.65 | 115 | 115 | 300pA | 0.9pA/°C | 13 | 1MHz | 0.3 | DFN, SOIC | \$1.15 |
| ISL28207 | 2 | N | 4.5 | 40 | 290µA | 75µV | 0.65 | 115 | 115 | 300pA | 0.9pA/°C | 13 | 1MHz | 0.3 | DFN, SOIC, MSOP | \$1.58 |