

**LOW TEMPCO VOLTAGE REFERENCE
1.23 VOLTS**

FEATURES

- Low drift 5ppm/°C
- Low dynamic impedance 0.6 ΩTyp.
- Operating current 50µA to 5mA
- Low power 60µW @ Iin=50µA
- Two terminal "Zener" operation
- Low output tolerance ±0.125%
- Low noise 5µV p-p Typ.
- Direct Replacements for LM113, ICL8069, AD589, MP5010
- Low cost

APPLICATIONS

- A to D and D to A Converters
- Constant Current Source
- Digital Voltmeter
- Power Supply Monitor
- Precision Regulators

PRODUCT DESCRIPTION

The ALPHA Semiconductor AS5010 is a 2-terminal band-gap precision voltage reference, which provides a stable fixed output voltage of 1.23 volts. ALPHA Semiconductor's design, process, and precise on chip trimming enables us to achieve a low temperature coefficient as low as 5 ppm/°C and ±1.25% reference tolerance. The AS5010 is an excellent choice for applications needing low input current between 50µA to 5mA, low drift over temperature, low noise, low power, and low cost.

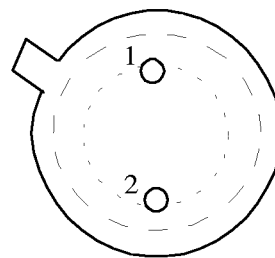
The AS5010 is available in many versions. The AS5010N, M, L, H, G grades are specified for 0°C to +70°C operation, in plastic packages (TO-92) and the AS5010, L, K, J grades are rated for -55°C to +125°C in metal can packages (TO-52). The AS5010 NT and MT grades are specified for 0°C to +70°C operation.

ORDERING INFORMATION

PART NUMBER	MAX TEMPCO ppm/°C	PACKAGE TYPE	TEMP. RANGE
AS5010NT	5	TO-52	COM.
AS5010MT	10	TO-52	COM
AS5010LT	25	TO-52	MIL
AS5010KT	50	TO-52	MIL
AS5010JT	100	TO-52	MIL
AS5010NN	5	TO-92	COM
AS5010MN	10	TO-92	COM
AS5010LN	25	TO-92	COM
AS5010HN	50	TO-92	COM
AS5010GN	100	TO-92	COM

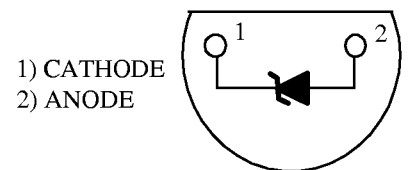
PIN CONNECTION

**TO-52
Metal Can Package**



Bottom View

**TO-92
Plastic Package**



Bottom View

