


V-Ref Precision 3V 5mA 3-Pin SOT-23 T/R

Manufacturer:	<u>Analog Devices, Inc</u>
Package/Case:	SOT-23
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The AD1582/AD1583/AD1584/AD1585 are low cost, low power, low dropout, precision band gap references. These designs are available as 3-terminal (series) devices and are packaged in the compact SOT-23, 3-lead surface-mount package. The versatility of these references makes them ideal for use in battery-powered 3 V or 5 V systems where there can be wide variations in supply voltage and a need to minimize power dissipation.

The superior accuracy and temperature stability of the AD1582/AD1583/AD1584/AD1585 result from the precise matching and thermal tracking of on-chip components. Patented temperature drift curvature correction design techniques minimize the nonlinearities in the voltage output temperature characteristic.

The AD1582/AD1583/AD1584/AD1585 series mode devices source or sink up to 5 mA of load current and operate efficiently with only 200 mV of required headroom supply. These parts draw a maximum 70 μ A of quiescent current with only a 1.0 μ A/V variation with supply voltage. The advantage of these designs over conventional shunt devices is extraordinary. Valuable supply current is no longer wasted through an input series resistor, and maximum power efficiency is achieved at all input voltage levels.

The AD1582/AD1583/AD1584/AD1585 are available in two grades, A and B, and are provided in a tiny footprint, the SOT-23. All grades are specified over the industrial temperature range of -40°C to $+125^{\circ}\text{C}$.

Key Features

Application

70 μ A Maximum low quiescent current	Portable, battery-powered equipment; for example, notebook computers, cellular phones, pagers, PDAs, GPSs, and DMMs
50 μ Vrms Wideband noise (10Hz to 10kHz)	Computer workstations; suitable for use with a wide range of video RAMDACs
\pm 5mA Current output capability	Smart industrial transmitters
Compact and surface mount	PCMCIA cards
	Automotive
	Hard disk drives
	3 V/5 V, 8-bit/12-bit data converters



Recommended For You

ADP196ACPZN-R7

Analog Devices, Inc
LFCSP-6

ADP191ACBZ-R7

Analog Devices, Inc
WLCSP4

AD581LH

Analog Devices, Inc
CAN3

ADL5315ACPZ-R7

Analog Devices, Inc
LFCSP8

ADP5023ACPZ-R7

Analog Devices, Inc
LFCSP-24

ADR01TUJZ-EP-R7

Analog Devices, Inc
5-LeadTSOT

AD581KH

Analog Devices, Inc
CAN3

AD780BRZ

Analog Devices, Inc
SOP8

AD580SH

Analog Devices, Inc
CAN3

ADM660ARZ

Analog Devices, Inc
SOP8

ADM660ARZ-REEL7

Analog Devices, Inc
SOP8

ADP1612ARMZ-R7

Analog Devices, Inc
MSOP8

ADR444BRZ

Analog Devices, Inc
SOP8

AD589JH

Analog Devices, Inc
CAN

AD1582ARTZ-REEL7

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SOT-23