

AD5560JSVUZ

Data Sheet

Programmable Device Power Supply, Integrated 16 Bit Level Setting DACs, 1.2A

Manufacturers Analog Devices, Inc

Package/Case TQFP-64

Product Type Specialty Amplifiers; ATE: DPS & PMU

RoHS Rohs

Lifecycle Images are for reference only

Please submit RFQ for AD5560JSVUZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The AD5560 is a high performance, highly integrated device power supply consisting of programmable force voltages and measure ranges. This part includes the required DAC levels to set the programmable inputs for the drive amplifier, as well as clamping and comparator circuitry. Offset and gain correction is included on-chip for DAC functions. A number of programmable measure current ranges are available: five internal fixed ranges and two external customer-selectable ranges (EXTFORCE1 and EXTFORCE2) that can supply currents up to ± 1.2 A and ± 500 mA, respectively. The voltage range possible at this high current level is limited by headroom and the maximum power dissipation. Current ranges in excess of ± 1.2 A or at high current and high voltage combinations can be achieved by paralleling or ganging multiple DPS devices. Open-drain alarm outputs are provided in the event of overcurrent, overtemperature, or Kelvin alarm on either the SENSE or DUTGND line.

The DPS functions are controlled via a simple 3-wire serial interface compatible with SPI, QSPITM, MICROWIRETM, and DSP interface standards running at clock speeds of up to 50 MHz.

Application Features Programmable device power supply (DPS) Automatic test equipment (ATE) FV, MI, MV, FNMV functions Device power supply 5 internal current ranges (on-chip RSENSE) 2 external high current ranges (external RSENSE) EXTFORCE1: ±1.2 A maximum EXTFORCE2: ±500 mA maximum Integrated programmable levels All 16-bit DACs: force DAC, comparator DACs, clamp DACs, offset DAC, OSD DAC, DGS DAC Programmable Kelvin clamp and alarm Offset and gain correction registers on-chip Ramp mode on force DAC for power supply slewing Programmable slew rate feature, 1 V/µs to 0.3 V/µs DUTGND Kelvin sense and alarm 25 V FV span with asymmetrical operation within -22 V/+25 VOn-chip comparators Gangable for higher current Guard amplifier System PMU connections Current clamps Die temperature sensor and shutdown feature On-chip diode thermal array Diagnostic register allows access to internal nodes Open-drain alarm flags (temperature, current clamp, Kelvin alarm)

SPI-/MICROWIRE-/DSP-compatible interface

72-ball (8 mm × 8 mm) flip-chip BGA

64-lead (10 mm \times 10 mm) TQFP with exposed pad (on top)

Related Products



ADF4350BCPZ
Analog Devices, Inc
LFCSP-32



Analog Devices, Inc

TSSOP-16



Analog Devices, Inc TSSOP-16



ADF4193BCPZ
Analog Devices, Inc
LFCSP-32



AD9516-4BCPZ
Analog Devices, Inc
LFCSP64



Analog Devices, Inc TSSOP-16



Analog Devices, Inc TSSOP-16



AD2S99BPZ
Analog Devices, Inc
PLCC-20