MCP4706A0T-E/CH

Data Sheet

Digital to Analog Converters - DAC Sngl 8B NV DAC w/Ext Vref & I2C interface

Manufacturers	Microchip Technology, Inc
Package/Case	SOT-23-6
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for MCP4706A0T-E/CH or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

MCP4706 is a single channel, 8-bit, voltage output Digital-to-Analog Converter with integrated EEPROM and an I2C Compatible Serial Interface.The MCP47X6 DAC family offers integrated non-volatile memory (EEPROM) which allows DAC register and configuration bit values to be saves at powered off. The VREF pin or the device VDD can be selected as the DAC's reference voltage. Power-Down modes enable system current reduction when the DAC output voltage is not required. These devices are available in small 6-pin SOT-23 and DFN 2x2 mm packages.

Features

Output Voltage Resolutions

8-bit: MCP4706

Rail-to-Rail Output

Fast Settling Time of 6 µs (typical)

DAC Voltage Reference Options

VDD

VREF

Output Gain Options

Unity (1x)

2x, only when VREF is used as voltage source

Non-Volatile Memory (EEPROM)

Auto Recall of Saved DAC register setting

Auto Recall of Saved Device Configuration (Voltage Reference, Gain, Power Down)

Power-Down Modes

Disconnects output buffer

Selection of VOUT pull-down resistors

Low Power Consumption

Normal Operation: 210 µA typ.

Power Down Operation: 60 nA typ.>

Single-Supply Operation: 2.7V to 5.5V

I2C™ Interface:

Eight Available Addresses

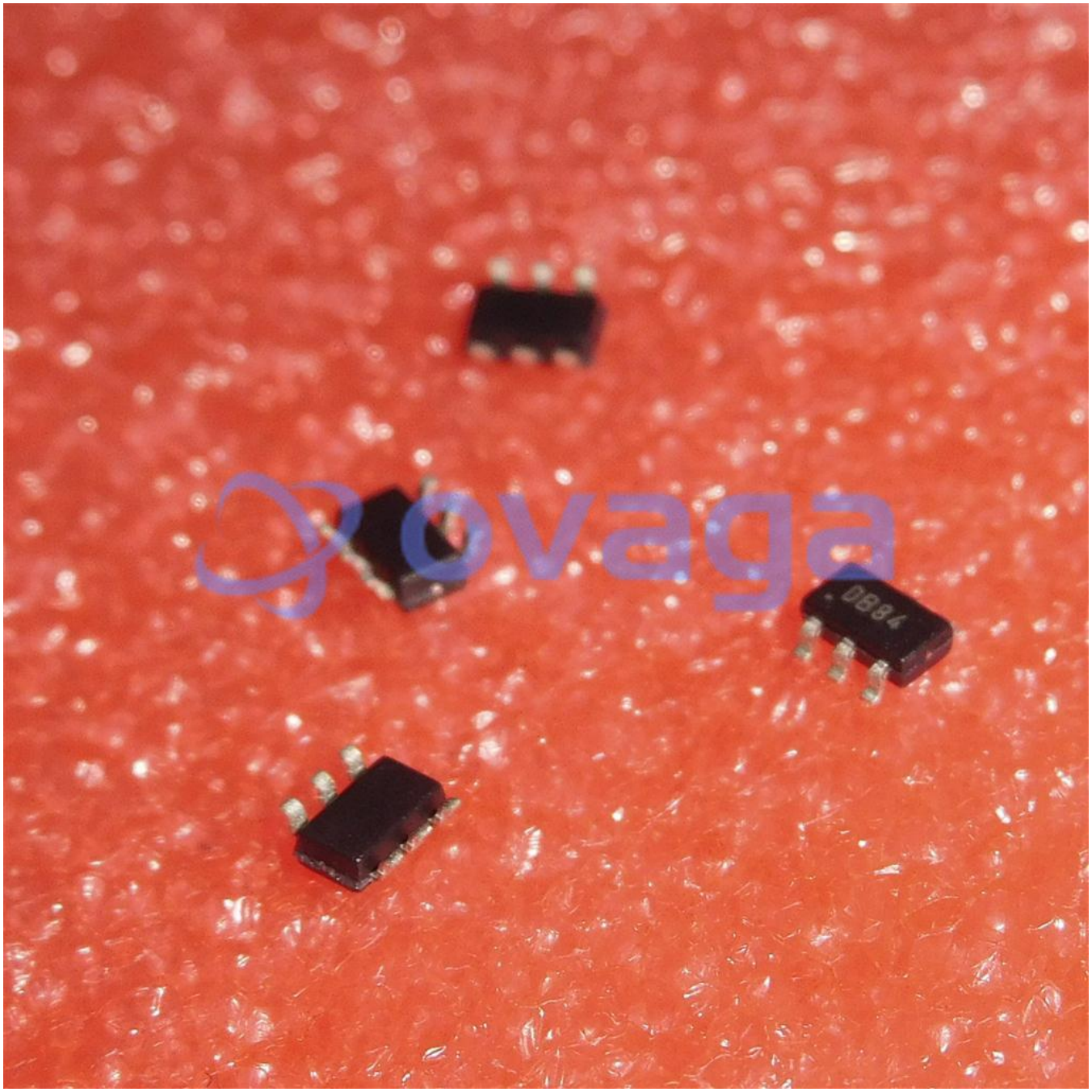
Standard (100 kbps), Fast (400 kbps), and High-Speed (3.4 Mbps) Modes

Small 6-lead SOT-23 and DFN (2x2) Packages

Extended Temperature Range: -40°C to +125°C

AEC-Q100 Grade 1 qualified


DB84
DB84
DB84
DB84
DB84
DB84
DB84



Related Products

[MCP3903-I/SS](#)

Microchip Technology, Inc

SSOP-28

[MCP4922-E/SL](#)

Microchip Technology, Inc

SOIC-14

[MCP48CVB21-E/UN](#)

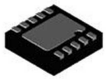
Microchip Technology, Inc

10-TFSOP, 10-MSOP (0.118, 3.00mm Width)

[MCP4716A0T-E/MAY](#)

Microchip Technology, Inc

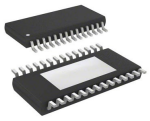
DFN-6



MCP4728A1T-E/UN

Microchip Technology, Inc

DFN-10



MCP3564RT-E/ST

Microchip Technology, Inc

TSSOP-20

MCP3204-CI/ST

Microchip Technology, Inc

TSSOP-14

MCP3301-CI/SN

Microchip Technology, Inc

SOIC-8