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MAT01GHZ

Data Sheet

Bipolar Transistors - BJT MATCHED MONO DUAL NPN

Manufacturers	Analog Devices, Inc
Package/Case	TO-78
Product Type	Transistors
RoHS	Rohs



Images are for reference only

Please submit RFO	for MAT01GHZ or Email to us: sales@ovaga.com We will contact you in 12 hours.	

<u>RFQ</u>

General Description

Lifecycle

The MAT01 is a monolithic dual NPN transistor. An exclusive Silicon Nitride "Triple-Passivation" process provides excellent stability of critical parameters over both temperature and time. Matchingcharacteristics include offset voltage of 40μ V, temperature drift of 0.15μ V/°C, and hFE matching of 0.7%.

Very high h is provided over a six decade range of collector current, including an exceptional hFE of 590 at a collector current of only 10nA. The high gain at lower collector current makes the MAT01 ideal for use in low-power, low-level input stages.

Features	Application
Low VOS (VBE match): 40 μ V typical, 100 μ V maximum	Weigh scales
Low TCVOS: 0.5 µV/°C maximum	Low noise, op amp, front end
High hFE: 500 minimum	Current mirror and current sink/source
Excellent hFE linearity from 10 nA to 10 mA	Low noise instrumentation amplifiers
Low noise voltage:0.23 μ V p-p from 0.1 Hz to 10 Hz	Voltage controlled attenuators
High breakdown: 45 V min	Log amplifiers



Related Products



MAT01AH

Analog Devices, Inc CAN6



MAT04FPZ

Analog Devices, Inc DIP14



MAT03EH Analog Devices, Inc TO78-6



MAT01GH

Analog Devices, Inc TO-78



MAX5078BATT

Analog Devices, Inc TDFN



<u>MAX20050ATC/V+T</u>

Analog Devices, Inc TDFN-C



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MAT14ARZ

Analog Devices, Inc 14-SOIC (0.154, 3.90mm Width)

MAX2602ESA

Analog Devices, Inc 8-SOIC (0.154, 3.90mm Width)