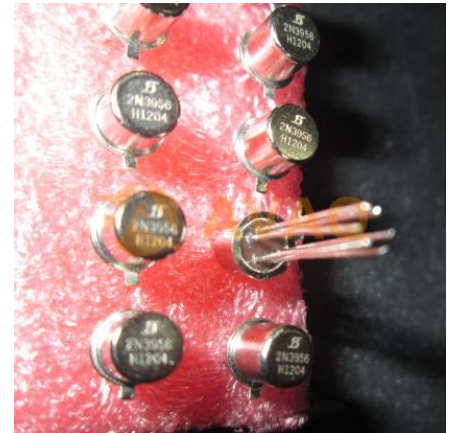


Trans JFET N-CH 7-Pin TO-71

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	CAN
Product Type:	Thyristors
Lifecycle:	Unconfirmed



Images are for reference only

[Inquiry](#)

General Description

The 2N3956 is a JFET transistor that operates in the enhancement mode. It is primarily used as a voltage-controlled resistor or as a low-power amplifier in electronic circuits. JFETs are known for their high input impedance, low noise performance, and simplicity of use.

Key Features

N-Channel JFET: The 2N3956 is an N-channel JFET, meaning that it is a three-terminal device with a source, drain, and gate terminal.

Enhancement Mode: This JFET operates in the enhancement mode, which means that it requires a positive voltage applied to the gate terminal to control the current flow between the source and drain terminals.

Low Noise: It offers low noise performance, making it suitable for applications where signal integrity is critical.

High Input Impedance: JFETs are known for their high input impedance, which allows them to interface with high-impedance signal sources without loading the source excessively.

Wide Operating Temperature Range: It is typically designed to operate within a wide temperature range, ensuring its suitability for various environmental conditions.

Application

Analog Signal Processing: It can be utilized as a voltage-controlled resistor or variable resistance element in analog circuits such as filters, attenuators, and voltage-controlled amplifiers.

Instrumentation Amplifiers: The low noise and high input impedance characteristics of the 2N3956 make it suitable for instrumentation amplifiers used in sensitive measurement and sensor circuits.

Audio Amplifiers: It can be employed in low-power audio amplifiers or preamplifiers, where low noise and high input impedance are desired.

Oscillators and Generators: It can be used in oscillators or waveform generators where its voltage-controlled resistance property is utilized to control the frequency or shape of the generated signal.



Recommended For You

2N5912

Texas Instruments, Inc

CAN7

2N5911

Texas Instruments, Inc

CAN

2N5566

Texas Instruments, Inc

CAN6

2N5564

Texas Instruments, Inc

CAN

CSD87352Q5D

Texas Instruments, Inc

SON8

CSD17313Q2T

Texas Instruments, Inc

WSO6

ULN2003BDR

Texas Instruments, Inc

SOP16

ULN2004ADR

Texas Instruments, Inc

SOP16

CSD86360Q5D

Texas Instruments, Inc

QFN

ULQ2003AD

Texas Instruments, Inc

SOP16

CSD87384M

Texas Instruments, Inc

PTAB-5

ULN2003ADRC3

Texas Instruments, Inc

SOP16

CSD86311W1723

Texas Instruments, Inc

BGA12

LMB95T/NOPB

Texas Instruments, Inc

TO220

CSD87330Q3D

Texas Instruments, Inc

SON8