



Monolithic N-Channel JFET Duals

SST404
SST406

U401
U404

U406

PRODUCT SUMMARY					
Part Number	$V_{GS(off)}$ (V)	$V_{(BR)GSS}$ Min (V)	g_{fs} Min (mS)	I_G Typ (pA)	$ V_{GS1} - V_{GS2} $ Max (mV)
U401	-0.5 to -2.5	-40	1	-2	5
SST/U404	-0.5 to -2.5	-40	1	-2	15
SST/U406	-0.5 to -2.5	-40	1	-2	40

FEATURES

- Monolithic Design
- High Slew Rate
- Low Offset/Drift Voltage
- Low Gate Leakage: 2 pA
- Low Noise
- High CMRR: 102 dB

BENEFITS

- Tight Differential Match vs. Current
- Improved Op Amp Speed, Settling Time Accuracy
- Minimum Input Error/Trimming Requirement
- Insignificant Signal Loss/Error Voltage
- High System Sensitivity
- Minimum Error with Large Input Signal

APPLICATIONS

- Wideband Differential Amps
- High-Speed, Temp-Compensated, Single-Ended Input Amps
- High-Speed Comparators
- Impedance Converters

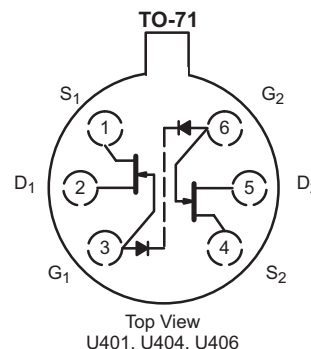
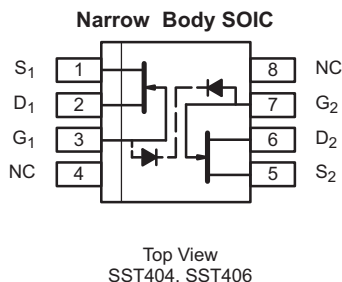
DESCRIPTION

The SST/U401 series of high-performance monolithic dual JFETs features extremely low noise, tight offset voltage and low drift over temperature specifications, and is targeted for use in a wide range of precision instrumentation applications. This series has a wide selection of offset and drift specifications with the U401 featuring a 5-mV offset and 10- μ V/ $^{\circ}$ C drift.

The U series, hermetically sealed TO-71 package is available

with full military processing (see Military Information). The SST series SO-8 package provides ease of manufacturing, and the symmetrical pinout prevents improper orientation. The SO-8 package is available with tape-and-reel options for compatibility with automatic assembly methods (see Packaging Information).

For similar high-gain products in TO-78 packaging, see the 2N5911/5912 data sheet.



ABSOLUTE MAXIMUM RATINGS

Gate-Drain, Gate-Source Voltage	-40 V
Gate Current	10 mA
Lead Temperature ($1/16$ " from case for 10 sec.)	300 $^{\circ}$ C
Storage Temperature:	
U Prefix	-65 to 200 $^{\circ}$ C
SST Prefix	-55 to 150 $^{\circ}$ C

Operating Junction Temperature	-55 to 150 $^{\circ}$ C
Power Dissipation:	
Per Side ^a	300 mW
Total ^b	500 mW

- Notes
- Derate 2.4 mW/ $^{\circ}$ C above 25 $^{\circ}$ C
 - Derate 4 mW/ $^{\circ}$ C above 25 $^{\circ}$ C

For applications information see AN106.