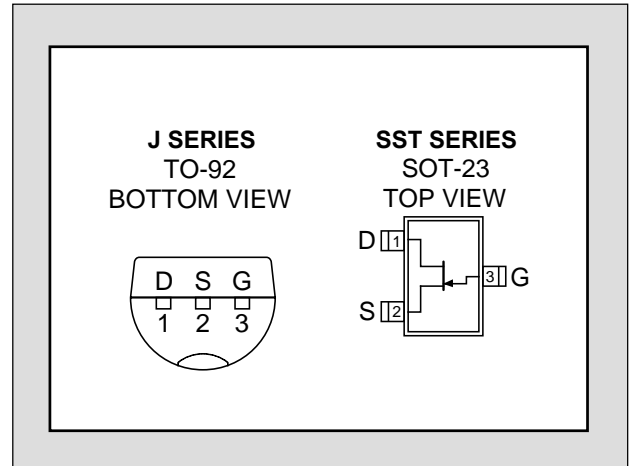


## J/SST201 SERIES

**HIGH GAIN  
N-CHANNEL JFET**

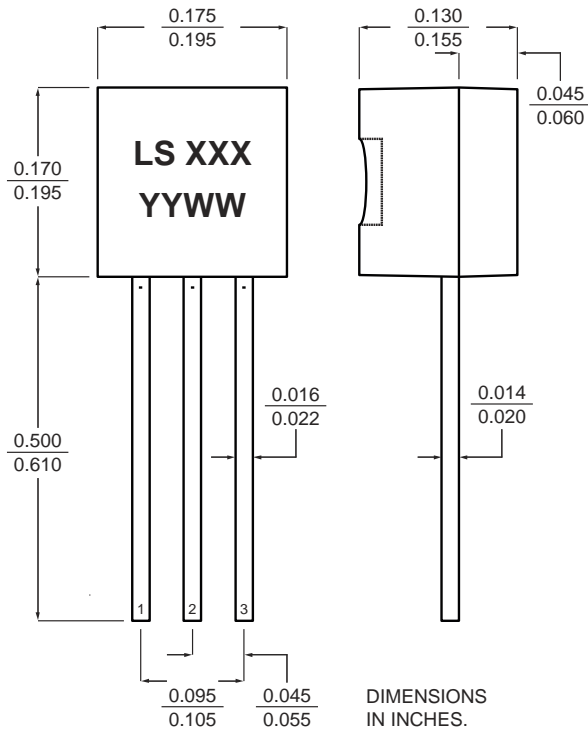
FEATURES	
DIRECT REPLACEMENT FOR SILICONIX J/SST201 SERIES	
LOW CUTOFF VOLTAGE	$V_{GS(off)} \leq 1.5V$
HIGH GAIN	$A_v = 80 V/V$
ABSOLUTE MAXIMUM RATINGS <sup>1</sup>	
@ 25 °C (unless otherwise stated)	
Maximum Temperatures	
Storage Temperature	-65 to +150 °C
Operating Junction Temperature	-55 to +135 °C
Maximum Power Dissipation	
Continuous Power Dissipation	350mW
Maximum Current	
Forward Gate Current	50mA
Maximum Voltages	
Gate to Drain Voltage	-40V
Gate to Source Voltage	-40V



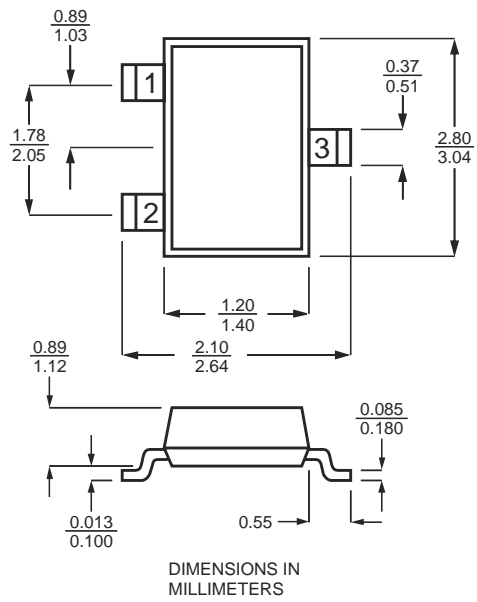
### ELECTRICAL CHARACTERISTICS @ 25 °C (unless otherwise stated)

SYMBOL	CHARACTERISTIC	MIN	TYP	MAX	UNITS	CONDITIONS	
BV <sub>GSS</sub>	Gate to Source Breakdown Voltage	J/SST201, 202	-40			V	I <sub>G</sub> = -1μA, V <sub>DS</sub> = 0V
		J/SST204	-25				
V <sub>GS(off)</sub>	Gate to Source Cutoff Voltage	J/SST201	-0.3		-1.5	V	V <sub>DS</sub> = 15V, I <sub>D</sub> = 10nA
		J/SST202	-0.8		-4		
		J/SST204	-0.3		2		
I <sub>DSS</sub>	Drain to Source Saturation Current <sup>2</sup>	J/SST201	0.2		1	mA	V <sub>DS</sub> = 15V, V <sub>GS</sub> = 0V
		J/SST202	0.9		4.5		
		J/SST204	0.2		3		
I <sub>GSS</sub>	Gate Reverse Current	-2		-100	pA	V <sub>GS</sub> = -20V, V <sub>DS</sub> = 0V	
I <sub>G</sub>	Gate Operating Current		-2			V <sub>DG</sub> = 10V, I <sub>D</sub> = 0.1mA	
I <sub>D(off)</sub>	Drain Cutoff Current		2			V <sub>DS</sub> = 15V, V <sub>GS</sub> = -5V	
g <sub>fs</sub>	Forward Transconductance	J/SST201, 204	0.5			mS	V <sub>DS</sub> = 15V, V <sub>GS</sub> = 0V, f = 1kHz
		J/SST202	1				
C <sub>iss</sub>	Input Capacitance		4.5		pF	V <sub>DS</sub> = 15V, V <sub>GS</sub> = 0V, f = 1MHz	
C <sub>rss</sub>	Reverse Transfer Capacitance		1.3				
e <sub>n</sub>	Noise Voltage		6		nV/√Hz	V <sub>DS</sub> = 10V, V <sub>GS</sub> = 0V, f = 1kHz	

## TO-92



## SOT-23



1. Absolute maximum ratings are limiting values above which serviceability may be impaired.
2. Pulse Test:  $PW \leq 300\mu s$ , Duty Cycle  $\leq 3\%$

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