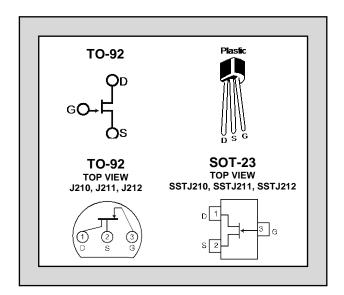


Improved Standard Products®

<u>J210, J211, J212</u> SSTJ210, SSTJ211, SSTJ212

LOW NOISE N-CHANNEL JFET GENERAL PURPOSE AMPLIFIER

FEATURES										
HIGH GAIN g _{fs} =7000μmho MINIMUM (J211, J212)										
HIGH INPUT IMPEDENCE IGSS= 100pA MAXIMUM										
LOW CAPACITANCE Ciss= 5pF TYPICAL										
ABSOLUTE MAXIMUM RATINGS										
@ 25 °C (unless otherwise stated)										
Gate-Drain or Gate-Source Voltage	-25V									
Gate Current	10mA									
Total Device Dissipation @25°C Ambient (Derate 3.27 mW/°C)	360mW									
Operating Temperature Range	-55 to +150 °C									



ELECTRICAL CHARACTERISTICS @ 25 °C (unless otherwise stated)

SYMBOL	CHARACTERISTICS	SSTJ210			SSTJ211			SSTJ212			UNITS	CONDITIONS	
		MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX			
I_{GSS}	Gate Reverse Current			-100			-100			-100	pА	$V_{DS} = 0$, $V_{GS} = -15V$ (NOTE 1)	
$V_{GS(off)}$	Gate-Source Cutoff Voltage	-1		-3	-2.5		-4.5	-4		-6	$V_{DS} = 15V, I_{D} = 1n$		nA
BV _{GSS}	Gate-Source Breakdown Voltage	-25			-25			-25			V	$V_{DS} = 0$, $I_{G} = -1\mu A$	
I_{DSS}	Drain Saturation Current	2		15	7		20	15		40	mA	V _{DS} = 15V, V _{GS} =0 (NOTE 2)	
lg	Gate Current		-10			-10			-10		pА	V _{DS} = 10V, I _D =1mA (NOTE 1)	
g fs	Common-Source Forward Transconductance	4,000	1	12,000	6,000		12,000	7,000		12,000			£ 41.11=
gos	Common-Source Output Conductance			150			200			200	µmho		f=1kHz
C _{ISS}	Common-Source Input Capacitance		4			4			4		pF	V _{DS} = 15V, V _{GS} =0	£ 4MH=
Crss	Common-Source Reverse Transfer Capacitance	-	1			1			1				f=1MHz
en	Equivalent Short-Circuit Input Noise Voltage	1	10			10			10	-	nV√Hz		f=1kHz

<u>NOTE</u>

- 1. Approximately doubles for every 10°C increase in T_A.
- 2. Pulse test duration = 2ms.

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