

n-channel JFETs designed for . . .



Performance Curves NZF
See Section 4

■ General Purpose Amplifiers

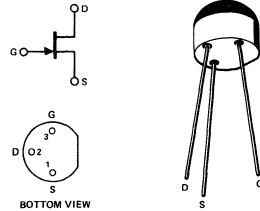
BENEFITS

- High Gain
 $g_{FS} = 7000 \mu\text{mho}$ Minimum
 (E211, E212)
- High Input Impedance
 $I_{GSS} = 100 \text{ pA}$ Maximum
 $C_{iss} = 5 \text{ pF}$ Typical

ABSOLUTE MAXIMUM RATINGS (25°C)

Gate-Drain or Gate-Source Voltage	-25 V
Gate Current	10 mA
Total Device Dissipation (25°C Free-Air Temperature)	350 mW
Power Derating (to +125°C)	3.5 mW/°C
Storage Temperature Range	-55 to +125°C
Operating Temperature Range	-55 to +125°C
Lead Temperature (1/16" from case for 10 seconds)	300°C

TO-106
See Section 5



ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

	Characteristic	E210			E211			E212			Unit	Test Conditions		
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max				
1	S	I_{GSS}									-100	pA	$V_{DS} = 0, V_{GS} = -15 \text{ V}$	
2	T	$V_{GS(off)}$									-6	V	$V_{DS} = 15 \text{ V}, I_D = 1 \text{ nA}$	
3	A	BV_{GSS}									-25		$V_{DS} = 0, I_G = -1 \mu\text{A}$	
4	I	I_{DSS}									40	mA	$V_{DS} = 15 \text{ V}, V_{GS} = 0$	
5	C	I_G									-10	pA	$V_{DG} = 10 \text{ V}, I_D = 1 \text{ mA}$	
6		g_{fs}									12,000	μmho	$V_{DS} = 15 \text{ V}, V_{GS} = 0$	
7	D	g_{os}									200			$f = 1 \text{ kHz}$
8	N	C_{iss}									5.0	pF		$f = 1 \text{ MHz}$
9	M	C_{rss}									1.5			$f = 1 \text{ kHz}$
10	I	\bar{e}_n									10	$\frac{nV}{\sqrt{Hz}}$	$f = 1 \text{ kHz}$	

NOTES:

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

NZF