

IF1322A, IN1322B**N-Channel Matched Dual Silicon Junction Field-Effect Transistor**

- Low Noise, High Gain Amplifier
- Differential Inputs

Absolute maximum ratings at $T_A = 25^\circ\text{C}$

Reverse Gate Source & Gate Drain Voltage	-20V
Continuous Forward Gate Current	10 mA
Continuous Device Power Dissipation	480mW
Power Derating	3.8 mW/ $^\circ\text{C}$
Storage Temperature Range	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$

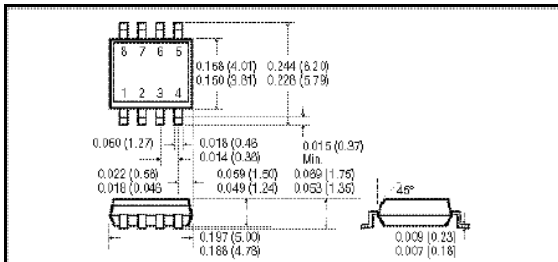
At 25 $^\circ\text{C}$ free air temperature**Static Electrical Characteristics**

		IF1322				Process NJ132L	
		Min	Typ	Max	Unit	Test Conditions	
Gate Source Breakdown Voltage	$V_{(BR)GSS1}$ $V_{(BR)GSS2}$ $V_{(BR)GSS3}$	-20			V	$I_G = -25 \mu\text{A}$, $V_{DS} = 0 \text{ V}$ $I_G = -3 \mu\text{A}$, $V_{DS} = 0 \text{ V}$ $I_G = -1 \mu\text{A}$, $V_{DS} = 0 \text{ V}$	
Fx	$\frac{V_{(BR)GSS1}}{V_{(BR)GSS2}}$	0.9		1.1			
Gate Reverse Current	I_{GSS}			-0.1	nA	$V_{GS} = -10 \text{ V}$, $V_{DS} = 0 \text{ V}$	
Gate Source Cutoff Voltage	$V_{GS(OFF)}$	-0.8		-1.5	V	$V_{DS} = 10 \text{ V}$, $I_D = 1 \mu\text{A}$	
Drain Saturation Current (pulsed)	I_{DSS}	8		25	mA	$V_{DS} = 10 \text{ V}$, $V_{GS} = 0 \text{ V}$	
Gate Source Forward Voltage	V_{GSF}	0.3		1.0	V	$V_{DS} = 0 \text{ V}$, $I_G = -1 \text{ mA}$ $V_{DS} = 0 \text{ V}$, $I_G = -1 \mu\text{A}$	

Dynamic Electrical Characteristics

Common-Source Forward Transconductance	g_{fs}	0.01			mS	$V_{DS} = 5 \text{ V}$, $V_{GS} = 0 \text{ V}$	1 kHz
Differential Gate Source Voltage- A	$ V_{GS1} - V_{GS2} $			30	mV	$V_{DS} = 5 \text{ V}$, $I_D = 3 \text{ mA}$	
B	$ V_{GS1} - V_{GS2} $			40	mV	$V_{DS} = 5 \text{ V}$, $I_D = 3 \text{ mA}$	
Equivalent Short Circuit Input Noise Voltage ¹	$\sim e_N$			4 2	nV/ $\sqrt{\text{Hz}}$	$V_{DS} = 5 \text{ V}$, $I_D = 3 \text{ mA}$	100 hz 1 kHz
Equivalent Short Circuit Input Noise Current ¹	i_n			0.05	pA/ $\sqrt{\text{Hz}}$	$V_{DS} = 5 \text{ V}$, $I_D = 3 \text{ mA}$	1 kHz

Note 1: Guaranteed but not tested.



Dimensions in Inches (mm)

SOIC-8: IF1322

1-G1, 2-D1, 3-S1, 4-G2,
5-G2, 6-D2, 7-S2, 8-G1



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