

NJ132L Process

Silicon Junction Field-Effect Transistor

• Low-Noise Amplifier

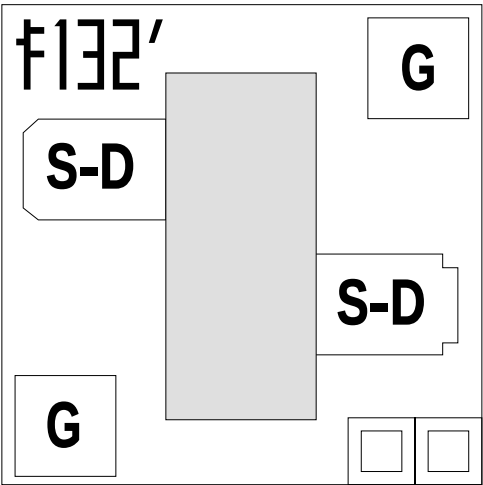
Absolute maximum ratings at TA = 25 °C

Gate Current, Ig	10 mA
Operating Junction Temperature, Tj	+150°C
Storage Temperature, Ts	– 65°C to +175°C

Devices in this Databook based on the NJ132L Process.

Datasheet

2N6451, 2N6452
2N6453, 2N6454
IF1320
IFN152
2SK152



Die Size = 0.022" X 0.022"
All Bond Pads = 0.004" Sq.
Substrate is also Gate.

www.DataSheet4U.com

At 25°C free air temperature:		NJ132L Process					
		Min	Typ	Max	Unit	Test Conditions	
Gate Source Breakdown Voltage	V _{(BR)GSS}	– 15	– 25		V	I _G = – 1 µA, V _{DS} = ØV	
Reverse Gate Leakage Current	I _{GSS}		– 50	– 100	nA	V _{GS} = – 10V, V _{DS} = ØV	
Drain Saturation Current (Pulsed)	I _{DSS}	5		100	mA	V _{DS} = 10V, V _{GS} = ØV	
Gate Source Cutoff Voltage	V _{GS(OFF)}	– 0.5		– 7	V	V _{DS} = 10V, I _D = 1 nA	
Dynamic Electrical Characteristics							
Forward Transconductance	(pulsed) g _{fs}	15			mS	V _{DS} = 10V, V _{GS} = ØV	f = 1 kHz
	g _{fs}		15		mS	V _{DS} = 10V, I _D = 5 mA	f = 1 kHz
Input Capacitance	C _{iss}		15		pF	V _{DS} = 10V, V _{GS} = ØV	f = 1 MHz
Feedback Capacitance	C _{iss}		3.5		pF	V _{DS} = ØV, V _{GS} = – 10V	f = 1 MHz
Equivalent Noise Voltage	ē _N		1		nV/√HZ	V _{DS} = 4V, I _D = 5 mA	f = 1 kHz

NJ132L Process

Silicon Junction Field-Effect Transistor

