NJ26 Process

Silicon Junction Field-Effect Transistor

• Low-Noise, High Gain Amplifier

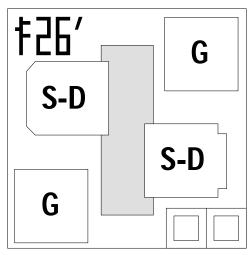
Absolute maximum ratings at TA = 25°C

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 NJ26A Process.

Datasheet

2N4416, 2N4416A 2N5484, 2N5485 2N5486 J304, J305 VCR11N



Die Size = 0.016" X 0.016" All Bond Pads = 0.004" Sq. Substrate is also Gate.

At 25°C free air temperature:			NJ26 Process				
Static Electrical Characteristics		Min	Тур	Max	Unit	Test Conditions	
Gate Source Breakdown Voltage	V _{(BR)GSS}	- 30	- 40		V	$I_{G} = -1 \ \mu A, \ V_{DS} = \emptyset V$	
Reverse Gate Leakage Current	I _{GSS}		- 10	- 100	pА	$V_{GS} = -20 V$, $V_{DS} = \emptyset V$	
Drain Saturation Current (Pulsed)	I _{DSS}	2		22	mA	$V_{DS} = 15 V$, $V_{GS} = \emptyset V$	
Gate Source Cutoff Voltage	V _{GS(OFF)}	- 1		- 5	V	$V_{DS} = 15 V, I_D = 1 nA$	

Dynamic Electrical Characteristics

Forward Transconductance	9 _{fs}	6		mS	$V_{DS} = 15 V$, $V_{GS} = \emptyset V$	f = 1 kHz
Input Capacitance	C _{iss}	4.3	5.0	pF	$V_{DS} = 15 V, V_{GS} = \emptyset V$	f = 1 MHz
Feedback Capacitance	C _{rss}	1	1.5	pF	$V_{DS} = 15 V, V_{GS} = \emptyset V$	f = 1 MHz
Equivalent Noise Voltage	ē _N	4		nV/√HZ	V _{DS} = 10V, I _D = 5 mA	f = 1 kHz



NJ26 Process

Silicon Junction Field-Effect Transistor

