# NJ26 Process

# Silicon Junction Field-Effect Transistor

### • Low-Noise, High Gain Amplifier

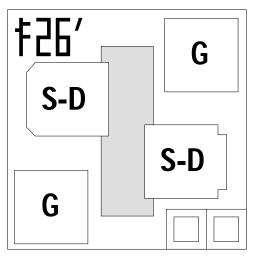
### Absolute maximum ratings at TA = 25°C

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.

ataSheet4U.com

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

#### **Dynamic Electrical Characteristics**

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



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