

N-Channel JFETs

Switches

ELECTRICAL CHARACTERISTICS at $T_A = 25^\circ\text{C}$

Device Type	$V_{GS(ON)}$		I_{DSS}		$V_{DS(ON)}$				I_{DSS}		C_{iss}^1		C_{oss}^1		$r_{DS(on)}$ Max (Ω)	Process	
	Min. (V)	@ I_D (μA)	Max. (mA)	@ V_{GS} (V)	Limits		Conditions		Min. (mA)	Max. (mA)	@ V_{DS} (V)	Max. (pF)	@ V_{GS} (V)	Max. (pF)			@ V_{GS} (V)
					Min. (V)	Max. (V)	V_{GS} (V)	I_D (mA)									
2N3824	-50	-1.0	-0.1	-30	—	-8.0	15	1.0	—	—	—	6.0	15	3.0	-8.0 ²	250	NJ32
2N3966	-30	-1.0	-0.1	-20	-4.0	-6.0	10	10	2.0	—	20	6.0	20	1.5	-7.0 ²	220	NJ32
2N3970	-40	-1.0	-0.3	-20	-4.0	-10	20	1.0	50	150	20	25	20	6.0	-12 ²	30	NJ132
2N3971	-40	-1.0	-0.3	-20	-2.0	-5.0	20	1.0	25	75	20	25	20	6.0	-12 ²	60	NJ132
2N3972	-40	-1.0	-0.3	-20	-0.5	-3.0	20	1.0	5.0	30	20	25	20	6.0	-12 ²	100	NJ132
2N4091	-40	-1.0	-0.5	-20	-5.0	-10	20	1.0	30	—	20	16	20	5.0	-20 ²	30	NJ132
2N4092	-40	-1.0	-0.5	-20	-2.0	-7.0	20	1.0	15	—	20	16	20	5.0	-20 ²	50	NJ132
2N4093	-40	-1.0	-0.5	-20	-1.0	-5.0	20	1.0	8.0	—	20	16	20	5.0	-20 ²	80	NJ132
2N4391	-40	-1.0	-0.1	-20	-4.0	-10	20	1.0	50	150	20	16	20	5.0	-12 ²	30	NJ132
2N4392	-40	-1.0	-0.1	-20	-2.0	-5.0	20	1.0	25	75	20	16	20	5.0	-7.0 ²	60	NJ132
2N4393	-40	-1.0	-0.1	-20	-0.5	-3.0	20	1.0	5.0	30	20	16	20	5.0	-5.0 ²	100	NJ132
2N4856	-40	-1.0	-0.25	-20	-4.0	-10	15	1.0	50	—	15	18	-10 ²	8.0	-10 ²	25	NJ132
2N4856A	-40	-1.0	-0.25	-20	-4.0	-10	15	1.0	50	—	15	10	-10 ²	4.0	-10 ²	25	NJ132
2N4857	-40	-1.0	-0.25	-20	-2.0	-6.0	15	1.0	20	100	15	18	-10 ²	8.0	-10 ²	40	NJ132
2N4857A	-40	-1.0	-0.25	-20	-2.0	-6.0	15	1.0	20	100	15	10	-10 ²	3.5	-10 ²	40	NJ132
2N4858	-40	-1.0	-0.25	-20	-0.8	-4.0	15	1.0	8.0	80	15	18	-10 ²	8.0	-10 ²	40	NJ132
2N4858A	-40	-1.0	-0.25	-20	-0.8	-4.0	15	1.0	8.0	80	15	10	-10 ²	3.5	-10 ²	60	NJ132
2N4859	-30	-1.0	-0.25	-15	-4.0	-10	15	1.0	50	—	15	18	-10 ²	8.0	-10 ²	25	NJ132
2N4859A	-30	-1.0	-0.25	-15	-4.0	-10	15	1.0	50	—	15	10	-10 ²	4.0	-10 ²	25	NJ132
2N4860	-30	-1.0	-0.25	-15	-2.0	-6.0	15	1.0	20	100	15	18	-10 ²	8.0	-10 ²	40	NJ132
2N4860A	-30	-1.0	-0.25	-15	-2.0	-6.0	15	1.0	20	100	15	10	-10 ²	3.5	-10 ²	40	NJ132
2N4861	-30	-1.0	-0.5	-15	-0.8	-4.0	15	1.0	8.0	80	15	18	-10 ²	8.0	-10 ²	60	NJ132
2N4861A	-30	-1.0	-0.5	-15	-0.8	-4.0	15	1.0	8.0	80	15	10	-10 ²	3.5	-10 ²	60	NJ132
2N5432	-25	-1.0	-0.2	-15	-4.0	-10	5.0	3.0	150	—	15	30	-10 ²	15	-10 ²	5.0	NJ903
2N5433	-25	-1.0	-0.2	-15	-3.0	-9.0	5.0	3.0	100	—	15	30	-10 ²	15	-10 ²	7.0	NJ903
2N5434	-25	-1.0	-0.2	-15	-1.0	-4.0	5.0	3.0	30	—	15	30	-10 ²	15	-10 ²	10	NJ903

NOTES

- 1) $V_{GS} = 0$ V
 2) I_D in μA
 3) $V_{GS} = 0$ V, V_{DS} in volts

RF Amplifiers

ELECTRICAL CHARACTERISTICS at $T_A = 25^\circ\text{C}$

Device Type	$V_{GS(ON)}$		I_{DSS}		$V_{DS(ON)}$				I_{DSS}		f_{sw}		C_{iss}^1		C_{oss}^1		$r_{DS(on)}$ Max (Ω)	Process		
	Min. (V)	@ I_D (μA)	Max. (mA)	@ V_{GS} (V)	Limits		Conditions		Min. (mA)	Max. (mA)	@ V_{DS} (V)	Min. (ns)	Max. (ns)	@ V_{GS} (V)	Max. (pF)	@ V_{GS} (V)			Max. (pF)	@ V_{GS} (V)
					Min. (V)	Max. (V)	V_{GS} (V)	I_D (mA)												
2N3823	-30	-1.0	-0.5	-20	—	-8.0	10	1.0	4.0	20	15	3.5	6.5	15	6.0	15	2.0	15	—	NJ32
2N4223	-30	-1.0	-0.25	-20	—	-8.0	15	1.0	3.0	18	15	3.0	7.0	15	6.0	15	2.0	15	—	NJ32
2N4224	-30	-1.0	-0.5	-20	—	-8.0	15	1.0	2.0	20	15	2.0	7.5	15	6.0	15	2.0	15	—	NJ32
2N4416	-30	-1.0	-0.1	-20	—	-6.0	15	1.0	5.0	15	15	4.5	7.5	15	4.0	15	0.8	15	—	NJ26
2N4416A	-35	-1.0	-0.1	-20	-2.5	-6.0	15	1.0	5.0	15	15	4.5	7.5	15	4.0	15	0.8	15	—	NJ26
2N5078	-30	-1.0	-0.25	-20	-0.5	-8.0	15	1.0	4.0	25	15	4.0	—	15	6.0	15	2.0	15	—	NJ26
2N5397	-25	-1.0	-0.1	-15	-1.0	-6.0	10	1.0	10	30	10	6.0	10	10 ²	5.0	10 ²	1.2	10 ²	—	NJ26A
2N5398	-25	-1.0	-0.1	-15	-1.0	-6.0	10	1.0	5.0	40	10	6.5	10	10	6.5	10	1.3	10	—	NJ26A

NOTES

- 1) $V_{GS} = 0$ V
 2) $I_D = 10$ μA