

## 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)	@ $V_{GS}$ (V)	Max. (pF)	@ $V_{GS}$ (V)	Max. (pF)			@ $V_{GS}$ (V)
					Min. (V)	Max. (V)	$V_{DS}$ (V)	$I_D$ (mA)									
2N3824	-50	-1.0	-0.1	-30	—	-8.0	15	1.0	—	—	—	6.0	15	3.0	-8.0 <sup>2</sup>	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 <sup>2</sup>	220	NJ32
2N3970	-40	-1.0	-0.3	-20	-4.0	-10	20	1.0	50	150	20	25	20	6.0	-12 <sup>2</sup>	30	NJ132
2N3971	-40	-1.0	-0.3	-20	-2.0	-5.0	20	1.0	25	75	20	25	20	6.0	-12 <sup>2</sup>	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 <sup>2</sup>	100	NJ132
2N4091	-40	-1.0	-0.5	-20	-5.0	-10	20	1.0	30	—	20	16	20	5.0	-20 <sup>2</sup>	30	NJ132
2N4092	-40	-1.0	-0.5	-20	-2.0	-7.0	20	1.0	15	—	20	16	20	5.0	-20 <sup>2</sup>	50	NJ132
2N4093	-40	-1.0	-0.5	-20	-1.0	-5.0	20	1.0	8.0	—	20	16	20	5.0	-20 <sup>2</sup>	80	NJ132
2N4391	-40	-1.0	-0.1	-20	-4.0	-10	20	1.0	50	150	20	16	20	5.0	-12 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	100	NJ132
2N4856	-40	-1.0	-0.25	-20	-4.0	-10	15	1.0	50	—	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	25	NJ132
2N4856A	-40	-1.0	-0.25	-20	-4.0	-10	15	1.0	50	—	15	10	-10 <sup>2</sup>	4.0	-10 <sup>2</sup>	25	NJ132
2N4857	-40	-1.0	-0.25	-20	-2.0	-6.0	15	1.0	20	100	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	40	NJ132
2N4857A	-40	-1.0	-0.25	-20	-2.0	-6.0	15	1.0	20	100	15	10	-10 <sup>2</sup>	3.5	-10 <sup>2</sup>	40	NJ132
2N4858	-40	-1.0	-0.25	-20	-0.8	-4.0	15	1.0	8.0	80	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	40	NJ132
2N4858A	-40	-1.0	-0.25	-20	-0.8	-4.0	15	1.0	8.0	80	15	10	-10 <sup>2</sup>	3.5	-10 <sup>2</sup>	60	NJ132
2N4859	-30	-1.0	-0.25	-15	-4.0	-10	15	1.0	50	—	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	25	NJ132
2N4859A	-30	-1.0	-0.25	-15	-4.0	-10	15	1.0	50	—	15	10	-10 <sup>2</sup>	4.0	-10 <sup>2</sup>	25	NJ132
2N4860	-30	-1.0	-0.25	-15	-2.0	-6.0	15	1.0	20	100	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	40	NJ132
2N4860A	-30	-1.0	-0.25	-15	-2.0	-6.0	15	1.0	20	100	15	10	-10 <sup>2</sup>	3.5	-10 <sup>2</sup>	40	NJ132
2N4861	-30	-1.0	-0.5	-15	-0.8	-4.0	15	1.0	8.0	80	15	18	-10 <sup>2</sup>	8.0	-10 <sup>2</sup>	60	NJ132
2N4861A	-30	-1.0	-0.5	-15	-0.8	-4.0	15	1.0	8.0	80	15	10	-10 <sup>2</sup>	3.5	-10 <sup>2</sup>	60	NJ132
2N5432	-25	-1.0	-0.2	-15	-4.0	-10	5.0	3.0	150	—	15	30	-10 <sup>2</sup>	15	-10 <sup>2</sup>	5.0	NJ903
2N5433	-25	-1.0	-0.2	-15	-3.0	-9.0	5.0	3.0	100	—	15	30	-10 <sup>2</sup>	15	-10 <sup>2</sup>	7.0	NJ903
2N5434	-25	-1.0	-0.2	-15	-1.0	-4.0	5.0	3.0	30	—	15	30	-10 <sup>2</sup>	15	-10 <sup>2</sup>	10	NJ903

## NOTES

- 1)  $V_{GS} = 0\text{ V}$
- 2)  $I_D$  in μA.
- 3)  $V_{DS} = 0\text{ V}$ ,  $V_{GS}$  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)	@ $V_{GS}$ (V)	Min. (ns)	Max. (ns)	@ $V_{GS}$ (V)	Max. (pF)	@ $V_{GS}$ (V)			Max. (pF)	@ $V_{GS}$ (V)
					Min. (V)	Max. (V)	$V_{DS}$ (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 <sup>2</sup>	5.0	10 <sup>2</sup>	1.2	10 <sup>2</sup>	—	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)  $V_{GS} = 0\text{ V}$
- 2)  $I_D = 10\text{ μA}$