# N-Channel JFETs

## Monolithic Dual Devices

### ELECTRICAL CHARACTERISTICS at $T_A$ = 25°C

| Device Type | $V_{(BR)GSS}$ | | $I_{GSS}$ | | $V_{GS(off)}$ Limits | | $V_{GS(off)}$ Conditions | | $I_{DSS}$ Limits | | $I_{DSS}$ Conditions | | $g_{fs}$ Limits | | $g_{fs}$ Conditions | $C_{iss}$[1] | | $C_{rss}$[1] | | $V_{GS1}$ -$V_{GS2}$ | Process |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Min (V) | @$I_G$ (μA) | Max (nA) | @$V_{GS}$ (V) | Min. (V) | Max. (V) | $V_{DS}$ (V) | $I_D$ (nA) | Min. (mA) | Max. (mA) | @$V_{DS}$ (V) | Min. (mS) | Max. (mS) | @$V_{DS}$ (V) | Max. (pF) | @$V_{DS}$ (V) | Max. (pF) | @$V_{DS}$ (V) | Max. (mV) | |
| 2N3954 | −50 | −1.0 | −0.1 | −30 | −1.0 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 3.0 | 20 | 4.0 | 20 | 1.2 | 20 | 5.0 | NJ35D |
| 2N3955 | −50 | −1.0 | −0.1 | −30 | −1.0 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 3.0 | 20 | 4.0 | 20 | 1.2 | 20 | 10 | NJ35D |
| 2N3956 | −50 | −1.0 | −0.1 | −30 | −1.0 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 3.0 | 20 | 4.0 | 20 | 1.2 | 20 | 15 | NJ35D |
| 2N3957 | −50 | −1.0 | −0.1 | −30 | −1.0 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 3.0 | 20 | 4.0 | 20 | 1.2 | 20 | 20 | NJ35D |
| 2N5045 | −50 | −1.0 | −0.25 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 8.0 | 15 | 4.0 | 15 | 5.0 | NJ35D |
| 2N5046 | −50 | −1.0 | −0.25 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 8.0 | 15 | 4.0 | 15 | 10 | NJ35D |
| 2N5047 | −50 | −1.0 | −0.25 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 8.0 | 15 | 4.0 | 15 | 15 | NJ35D |
| 2N5196 | −50 | −1.0 | −0.1 | −30 | −0.7 | −4.0 | 20 | 1.0 | 0.7 | 7.0 | 20 | 1.0 | 4.0 | 20 | 6.0 | 20 | 2.0 | 20 | 5.0 | NJ35D |
| 2N5197 | −50 | −1.0 | −0.1 | −30 | −0.7 | −4.0 | 20 | 1.0 | 0.7 | 7.0 | 20 | 1.0 | 4.0 | 20 | 6.0 | 20 | 2.0 | 20 | 5.0 | NJ35D |
| 2N5198 | −50 | −1.0 | −0.1 | −30 | −0.7 | −4.0 | 20 | 1.0 | 0.7 | 7.0 | 20 | 1.0 | 4.0 | 20 | 6.0 | 20 | 2.0 | 20 | 10 | NJ35D |
| 2N5199 | −50 | −1.0 | −0.1 | −30 | −0.7 | −4.0 | 20 | 1.0 | 0.7 | 7.0 | 20 | 1.0 | 4.0 | 20 | 6.0 | 20 | 2.0 | 20 | 15 | NJ35D |
| 2N5545 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 6.0 | 15 | 2.0 | 15 | 5.0 | NJ35D |
| 2N5546 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 6.0 | 15 | 2.0 | 15 | 10 | NJ35D |
| 2N5547 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 15 | 0.5 | 0.5 | 8.0 | 15 | 1.5 | 6.0 | 15 | 6.0 | 15 | 2.0 | 15 | 15 | NJ35D |
| 2N5561 | −50 | −1.0 | −0.1 | −30 | −0.8 | −3.0 | 20 | 1.0 | 1.0 | 10 | 20 | — | — | — | 15 | 20 | 4.0 | 20 | 5.0 | NJ35D |
| 2N5562 | −50 | −1.0 | −0.1 | −30 | −0.8 | −3.0 | 20 | 1.0 | 1.0 | 10 | 20 | — | — | — | 15 | 20 | 4.0 | 20 | 10 | NJ35D |
| 2N5563 | −50 | −1.0 | −0.1 | −30 | −0.8 | −3.0 | 20 | 1.0 | 1.0 | 10 | 20 | — | — | — | 15 | 20 | 4.0 | 20 | 15 | NJ35D |
| 2N5911 | −25 | −1.0 | −0.1 | −15 | −1.0 | −5.0 | 10 | 1.0 | 7.0 | 40 | 10 | 5.0 | 10 | $10^2$ | 5.0 | $10^2$ | 1.2 | $10^2$ | 10 | NJ28D |
| 2N5912 | −25 | −1.0 | −0.1 | −15 | −1.0 | −5.0 | 10 | 1.0 | 7.0 | 40 | 10 | 5.0 | 10 | $10^4$ | 5.0 | $10^2$ | 1.2 | $10^2$ | 15 | NJ28D |
| U231 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 5.0 | 20 | 6.0 | 20 | 2.0 | 20 | 5.0 | NJ35D |
| U232 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 5.0 | 20 | 6.0 | 20 | 2.0 | 20 | 10 | NJ35D |
| U233 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 5.0 | 20 | 6.0 | 20 | 2.0 | 20 | 15 | NJ35D |
| U234 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 5.0 | 20 | 6.0 | 20 | 2.0 | 20 | 20 | NJ35D |
| U235 | −50 | −1.0 | −0.1 | −30 | −0.5 | −4.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 5.0 | 20 | 6.0 | 20 | 2.0 | 20 | 25 | NJ35D |
| U257 | −25 | −1.0 | −0.1 | −15 | −1.0 | −5.0 | 10 | 1.0 | 5.0 | 40 | 10 | 4.5 | 10 | $10^2$ | 5.0 | $10^2$ | 1.2 | $10^2$ | 100 | NJ35D |
| U401 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 5.0 | NJ35D |
| U402 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 10 | NJ35D |
| U403 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 10 | NJ35D |
| U404 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 15 | NJ35D |
| U405 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 20 | NJ35D |
| U406 | −50 | −1.0 | −.025 | −30 | −0.5 | −2.5 | 15 | 1.0 | 0.5 | 10 | 10 | 2.0 | 7.0 | 10 | 8.0 | $10^3$ | 3.0 | $10^3$ | 40 | NJ35D |
| U410 | −40 | −1.0 | −0.2 | −30 | −0.5 | −3.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 4.0 | 20 | 4.5 | 20 | 1.2 | 20 | 10 | NJ35D |
| U411 | −40 | −1.0 | −0.2 | −30 | −0.5 | −3.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 4.0 | 20 | 4.5 | 20 | 1.2 | 20 | 20 | NJ35D |
| U412 | −40 | −1.0 | −0.2 | −30 | −0.5 | −3.5 | 20 | 1.0 | 0.5 | 5.0 | 20 | 1.0 | 4.0 | 20 | 4.5 | 20 | 1.2 | 20 | 40 | NJ35D |

NOTES:
1) $V_{GS} = 0$ V
2) $I_D = 5$ mA
3) $I_D = 200$ μA.

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