



### PRODUCTS

All Products

DMOS Switches

JFET Switches

**JFET Amplifiers**

JFET Diodes

MOSFETS

Buffers and Amplifiers

Power Management

ASIC Capabilities

Quality & Reliability

Distributors

### JFET AMPLIFIERS

#### PACKAGE: SO-8

| Part                    | Package | Breakdown V<br>Min | I <sub>GSS</sub><br>(pA)<br>Max | I <sub>DSS</sub><br>(mA) Min | I <sub>DSS</sub> (mA)<br>Max | V <sub>GS(off)</sub><br>(V) Min | V <sub>GS(off)</sub><br>(V) Max | Comments               | Channel        |
|-------------------------|---------|--------------------|---------------------------------|------------------------------|------------------------------|---------------------------------|---------------------------------|------------------------|----------------|
| <a href="#">SST404</a>  | SO-8    | -50                | -25                             | 0.5                          | 10                           | -0.5                            | -2.5                            | Very Low Noise         | N-Channel      |
| <a href="#">SST405</a>  | SO-8    | -50                | -25                             | 0.5                          | 10                           | -0.5                            | -2.5                            | Very Low Noise         | N-Channel      |
| <a href="#">SST406</a>  | SO-8    | -50                | -25                             | 0.5                          | 10                           | -0.5                            | -2.5                            | Very Low Noise         | N-Channel      |
| <a href="#">SST440</a>  | SO-8    | -25                | -500                            | 6                            | 30                           | -1                              | -6                              | High Gain, Low Leakage | N-Channel      |
| <a href="#">SST441</a>  | SO-8    | -25                | -500                            | 6                            | 30                           | -1                              | -6                              | High Gain, Low Leakage | N-Channel      |
| <a href="#">SST5911</a> | SO-8    | -25                | -100                            | 7                            | 40                           | -1                              | -5                              | High Gain, Low Leakage | Dual N-Channel |
| <a href="#">SST5912</a> | SO-8    | -25                | -100                            | 7                            | 40                           | -1                              | -5                              | High Gain, Low Leakage | Dual N-Channel |

#### PACKAGE: TO-18

| Part                   | Package | Breakdown V<br>Min | I <sub>GSS</sub><br>(pA)<br>Max | I <sub>DSS</sub><br>(mA)<br>Min | I <sub>DSS</sub> (mA)<br>Max | V <sub>GS(off)</sub><br>(V) Min | V <sub>GS(off)</sub><br>(V) Max | Comments                            | Channel   |
|------------------------|---------|--------------------|---------------------------------|---------------------------------|------------------------------|---------------------------------|---------------------------------|-------------------------------------|-----------|
| <a href="#">2N4338</a> | TO-18   | -50                | -100                            | 0.2                             | 0.6                          | -0.3                            | -1                              | Extremely Low Noise and Capacitance | N-Channel |
| <a href="#">2N4339</a> | TO-18   | -50                | -100                            | 0.5                             | 1.5                          | -0.6                            | -1.8                            | Extremely Low Noise and Capacitance | N-Channel |
| <a href="#">2N4340</a> | TO-18   | -50                | -100                            | 1.2                             | 3.6                          | -1                              | -3                              | Extremely Low Noise and Capacitance | N-Channel |
| <a href="#">2N4341</a> | TO-18   | -50                | -100                            | 3                               | 9                            | -2                              | -6                              | Extremely Low Noise and Capacitance | N-Channel |

#### PACKAGE: SOT-23

| Part                   | Package | Breakdown V<br>Min | I <sub>GSS</sub> (pA)<br>Max | I <sub>DSS</sub><br>(mA)<br>Min | I <sub>DSS</sub> (mA)<br>Max | V <sub>GS(off)</sub><br>(V) Min | V <sub>GS(off)</sub><br>(V) Max | Comments                   | Channel   |
|------------------------|---------|--------------------|------------------------------|---------------------------------|------------------------------|---------------------------------|---------------------------------|----------------------------|-----------|
| <a href="#">SST201</a> | SOT-23  | -40                | -100                         | 0.2                             | 1                            | -0.3                            | -1.5                            | High Input Impedance       | N-Channel |
| <a href="#">SST202</a> | SOT-23  | -40                | -100                         | 0.9                             | 4.5                          | -0.8                            | -4                              | High Input Impedance       | N-Channel |
| <a href="#">SST203</a> | SOT-23  | -40                | -100                         | 4                               | 20                           | -2                              | -10                             | High Input Impedance       | N-Channel |
| <a href="#">SST204</a> | SOT-23  | -25                | -100                         | 0.2                             | 3                            | -0.3                            | -2                              | High Input Impedance       | N-Channel |
| <a href="#">SST270</a> | SOT-23  | 30                 | 200                          | -2                              | -15                          | 0.5                             | 2                               |                            | P-Channel |
| <a href="#">SST271</a> | SOT-23  | 30                 | 200                          | -6                              | -50                          | 1.5                             | 4.5                             |                            | P-Channel |
| <a href="#">SST308</a> | SOT-23  | -25                | -1000                        | 12                              | 60                           | -1                              | -6.5                            | High Power Gain, Low Noise | N-Channel |
| <a href="#">SST309</a> | SOT-23  | -25                | -1000                        | 12                              | 30                           | -1                              | -4                              | High Power Gain, Low Noise | N-Channel |

|                         |        |     |       |      |      |      |      |                              |           |
|-------------------------|--------|-----|-------|------|------|------|------|------------------------------|-----------|
| <a href="#">SST310</a>  | SOT-23 | -25 | -1000 | 24   | 60   | -2   | -6.5 | High Power Gain, Low Noise   | N-Channel |
| <a href="#">SST4117</a> | SOT-23 | -40 | -10   | 0.02 | 0.09 | -0.6 | -1.8 | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">SST4118</a> | SOT-23 | -40 | -10   | 0.08 | 0.24 | -1   | -3   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">SST4119</a> | SOT-23 | -40 | -10   | 0.2  | 0.6  | -2   | -6   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">SSTJ210</a> | SOT-23 | -25 | -100  | 2    | 15   | -1   | -3   | Low Noise, Low Leakage       | N-Channel |
| <a href="#">SSTJ211</a> | SOT-23 | -25 | -100  | 7    | 20   | -2.5 | -4.5 | Low Noise, Low Leakage       | N-Channel |
| <a href="#">SSTJ212</a> | SOT-23 | -25 | -100  | 15   | 40   | -4   | -6   | Low Noise, Low Leakage       | N-Channel |
| <a href="#">SST4416</a> | SOT-23 | -30 | -100  | 5    | 15   |      | -6   | Low Noise                    |           |
| <a href="#">SST5484</a> | SOT-23 | -25 | -100  | 1    | 5    | -0.3 | -3   |                              | N-Channel |
| <a href="#">SST5485</a> | SOT-23 | -25 | -100  | 4    | 10   | -0.5 | -4   |                              | N-Channel |
| <a href="#">SST5486</a> | SOT-23 | -25 | -100  | 8    | 20   | -2   | -6   |                              | N-Channel |

**PACKAGE: TO-52**

| Part                 | Package | Breakdown V Min | I <sub>GSS</sub> (pA) Max | I <sub>DSS</sub> (mA) Min | I <sub>DSS</sub> (mA) Max | V <sub>GS(off)</sub> (V) Min | V <sub>GS(off)</sub> (V) Max | Comments                    |
|----------------------|---------|-----------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|-----------------------------|
| <a href="#">U308</a> | TO-52   | -25             | -150                      | 12                        | 60                        | -1                           | -6                           | High Power Gain, Low Noise, |
| <a href="#">U309</a> | TO-52   | -25             | -150                      | 12                        | 30                        | -1                           | -4                           | High Power Gain, Low Noise, |
| <a href="#">U310</a> | TO-52   | -25             | -150                      | 24                        | 60                        | -2.5                         | -6                           | High Power Gain, Low Noise, |

**PACKAGE: TO-71**

| Part                 | Package | Breakdown V Min | I <sub>GSS</sub> (pA) Max | I <sub>DSS</sub> (mA) Min | I <sub>DSS</sub> (mA) Max | V <sub>GS(off)</sub> (V) Min | V <sub>GS(off)</sub> (V) Max | Comments,Channel       | Channel        |
|----------------------|---------|-----------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|----------------|
| <a href="#">U401</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U402</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U403</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U404</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U405</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U406</a> | TO-71   | -50             | -25                       | 0.5                       | 10                        | -0.5                         | -2.5                         |                        | Dual N-Channel |
| <a href="#">U440</a> | TO-71   | -50             | -500                      | 6                         | 30                        | -1                           | -6                           | High Gain, Low Leakage | N-Channel      |
| <a href="#">U441</a> | TO-71   | -50             | -500                      | 6                         | 30                        | -1                           | -6                           | High Gain, Low Leakage | N-Channel      |

**PACKAGE: TO-72**

| Part                   | Package | Breakdown V Min | I <sub>GSS</sub> (pA) Max | I <sub>DSS</sub> (mA) Min | I <sub>DSS</sub> (mA) Max | V <sub>GS(off)</sub> (V) Min | V <sub>GS(off)</sub> (V) Max | Comments,Channel           | Channel   |
|------------------------|---------|-----------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|----------------------------|-----------|
| <a href="#">2N3821</a> | TO-72   | -50             | -100                      | 0.5                       | 2.5                       |                              | -4                           | Low Capacitance            | N-Channel |
| <a href="#">2N3822</a> | TO-72   | -50             | -100                      | 2                         | 10                        |                              | -6                           | Low Capacitance            | N-Channel |
| <a href="#">2N3823</a> | TO-72   | -30             | -500                      | 4                         | 20                        |                              | -8                           | Low Noise, Low Capacitance | N-Channel |
| <a href="#">2N3824</a> | TO-72   | -50             | -100                      | 0.5                       | 2.5                       |                              | -4                           | Low Leakage, Low           | N-        |

|                         |       |     |      |      |      |      |      |                              |           |
|-------------------------|-------|-----|------|------|------|------|------|------------------------------|-----------|
| <a href="#">2N4117</a>  | TO-72 | -40 | -10  | 0.02 | 0.09 | -0.6 | -1.8 | Capacitance                  | N-Channel |
| <a href="#">2N4117A</a> | TO-72 | -40 | -1   | 0.02 | 0.09 | -0.6 | -1.8 | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">2N4118</a>  | TO-72 | -40 | -10  | 0.08 | 0.24 | -1   | -3   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">2N4118A</a> | TO-72 | -40 | -1   | 0.08 | 0.24 | -1   | -3   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">2N4119</a>  | TO-72 | -40 | -10  | 0.2  | 0.6  | -2   | -6   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">2N4119A</a> | TO-72 | -40 | -1   | 0.2  | 0.6  | -2   | -6   | Low Leakage, Low Capacitance | N-Channel |
| <a href="#">2N4220</a>  | TO-72 | -30 | -100 | 0.2  | 3    |      | -4   |                              | N-Channel |
| <a href="#">2N4221</a>  | TO-72 | -30 | -100 | 2    | 6    |      | -6   |                              | N-Channel |
| <a href="#">2N4222</a>  | TO-72 | -30 | -100 | 5    | 15   |      | -8   |                              | N-Channel |
| <a href="#">2N4416</a>  | TO-72 | -30 | -100 | 5    | 15   |      | -6   | Low Noise                    | N-Channel |
| <a href="#">2N4416A</a> | TO-72 | -35 | -100 | 5    | 15   | -2.5 | -6   | Low Noise                    | N-Channel |

**PACKAGE: TO-78**

| Part                   | Package | Breakdown V Min | I <sub>GSS</sub> (pA) Max | I <sub>DSS</sub> (mA) Min | I <sub>DSS</sub> (mA) Max | V <sub>GS(off)</sub> (V) Min | V <sub>GS(off)</sub> (V) Max | Comments, Channel      | Channel        |
|------------------------|---------|-----------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|----------------|
| <a href="#">2N3811</a> | TO-78   |                 |                           |                           |                           |                              |                              | See Datasheet          |                |
| <a href="#">2N5911</a> | TO-78   | -25             | -100                      | 7                         | 40                        | -1                           | -5                           | Good Matching          | Dual N-Channel |
| <a href="#">2N5912</a> | TO-78   | -25             | -100                      | 7                         | 40                        | -1                           | -5                           | Good Matching          | Dual N-Channel |
| <a href="#">U443</a>   | TO-78   | -25             | -500                      | 6                         | 30                        | -1                           | -6                           | High Gain, Low Leakage | N-Channel      |
| <a href="#">U444</a>   | TO-78   | -25             | -500                      | 6                         | 30                        | -1                           | -6                           | High Gain, Low Leakage | N-Channel      |

**PACKAGE: TO-92**

| Part                   | Package | Breakdown V Min | I <sub>GSS</sub> (pA) Max | I <sub>DSS</sub> (mA) Min | I <sub>DSS</sub> (mA) Max | V <sub>GS(off)</sub> (V) Min | V <sub>GS(off)</sub> (V) Max | Comments               | Channel   |
|------------------------|---------|-----------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------|-----------|
| <a href="#">2N5484</a> | TO-92   | -25             | -100                      | 1                         | 5                         | -0.3                         | -3                           |                        | N-Channel |
| <a href="#">2N5485</a> | TO-92   | -25             | -100                      | 4                         | 10                        | -0.5                         | -4                           |                        | N-Channel |
| <a href="#">2N5486</a> | TO-92   | -25             | -100                      | 8                         | 20                        | -2                           | -6                           |                        | N-Channel |
| <a href="#">J201</a>   | TO-92   | -40             | -100                      | 0.2                       | 1                         | -0.3                         | -1.5                         | High Input Impedance   | N-Channel |
| <a href="#">J202</a>   | TO-92   | -40             | -100                      | 0.9                       | 4.5                       | -0.8                         | -4                           | High Input Impedance   | N-Channel |
| <a href="#">J203</a>   | TO-92   | -40             | -100                      | 4                         | 20                        | -2                           | -10                          | High Input Impedance   | N-Channel |
| <a href="#">J204</a>   | TO-92   | -25             | -100                      | 0.2                       | 3                         | -0.3                         | -2                           | High Input Impedance   | N-Channel |
| <a href="#">J210</a>   | TO-92   | -25             | -100                      | 2                         | 15                        | -1                           | -3                           | Low Noise, Low Leakage | N-Channel |
| <a href="#">J211</a>   | TO-92   | -25             | -100                      | 7                         | 20                        | -2.5                         | -4.5                         | Low Noise, Low Leakage | N-Channel |
| <a href="#">J212</a>   | TO-92   | -25             | -100                      | 15                        | 40                        | -4                           | -6                           | Low Noise, Low Leakage | N-Channel |
| <a href="#">J270</a>   | TO-92   | 30              | 200                       | -2                        | -15                       | 0.5                          | 2                            |                        | P-Channel |
| <a href="#">J271</a>   | TO-92   | 30              | 200                       | -6                        | -50                       | 1.5                          | 4.5                          |                        | P-Channel |

|                         |       |     |       |      |      |      |      |                                 |               |
|-------------------------|-------|-----|-------|------|------|------|------|---------------------------------|---------------|
| <a href="#">J308</a>    | TO-92 | -25 | -1000 | 12   | 60   | -1   | -6.5 | High Power Gain,<br>Low Noise   | N-<br>Channel |
| <a href="#">J309</a>    | TO-92 | -25 | -1000 | 12   | 30   | -1   | -4   | High Power Gain,<br>Low Noise   | N-<br>Channel |
| <a href="#">J310</a>    | TO-92 | -25 | -1000 | 24   | 60   | -2   | -6.5 | High Power Gain,<br>Low Noise   | N-<br>Channel |
| <a href="#">PN4117</a>  | TO-92 | -40 | -10   | 0.02 | 0.09 | -0.6 | -1.8 | Low Leakage, Low<br>Capacitance | N-<br>Channel |
| <a href="#">PN4117A</a> | TO-92 | -40 | -1    | 0.02 | 0.09 | -0.6 | -1.8 | Low Leakage, Low<br>Capacitance | N-<br>Channel |
| <a href="#">PN4118</a>  | TO-92 | -40 | -10   | 0.08 | 0.24 | -1   | -3   | Low Leakage, Low<br>Capacitance | N-<br>Channel |
| <a href="#">PN4118A</a> | TO-92 | -40 | -1    | 0.08 | 0.24 | -1   | -3   | Low Leakage, Low<br>Capacitance | N-<br>Channel |
| <a href="#">PN4119</a>  | TO-92 | -40 | -10   | 0.2  | 0.6  | -2   | -6   | Low Leakage, Low<br>Capacitance | N-<br>Channel |
| <a href="#">PN4119A</a> | TO-92 | -40 | -1    | 0.2  | 0.6  | -2   | -6   | Low Leakage, Low<br>Capacitance | N-<br>Channel |

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