

# P-Channel Power MOSFET's

Operating Temperature: -55°C to 150°C

| Part No. | Drain-Source<br>Breakdown Voltg. | Min. On-State<br>DS Current | Typ. Static DS<br>Resistance | Part No. | Drain-Source<br>Breakdown Voltg. | Min. On-State<br>DS Current | Typ. Static DS<br>Resistance | Package   | Outline<br>(Max. in mm)                                                                          |
|----------|----------------------------------|-----------------------------|------------------------------|----------|----------------------------------|-----------------------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------|
|          | $BV_{DS}(V)$                     | $I_{DS(on)}(mA)$            | $R_{DS(on)}(\Omega)$         |          | $BV_{DS}(V)$                     | $I_{DS(on)}(A)$             | $R_{DS(on)}(\Omega)$         | Bulk/Reel |                                                                                                  |
| J174     | 30.00                            | 1.00                        | 85                           | J176     | 30.00                            | .25                         | 250                          | 1000/2000 | <b>TO-92</b><br>1.80Typ. 1.27Typ. .56<br>3.85 1.27 4.83<br>3.98 2.54 14.97 4.03<br>1.02Typ. Typ. |
| J175     | 30.00                            | .50                         | 125                          | J270     | 30.00                            | -                           | -                            |           |                                                                                                  |

# N-Channel JFET's

| Part No. | $BV_{DS}$<br>Min. | $V_P @ V_{DS} & I_D$ |      |     |      | $G_{fs}$ |       | $C_{iss}$<br>Max. | $C_{rss}$<br>Max. | Package   | Outline<br>(Max. in mm)                                                                          |
|----------|-------------------|----------------------|------|-----|------|----------|-------|-------------------|-------------------|-----------|--------------------------------------------------------------------------------------------------|
|          | (V)               | Min.                 | Max. | (V) | (nA) | Min.     | Max.  | (pF)              | (pF)              | Bulk/Reel |                                                                                                  |
| 2N3819   | 25                | -                    | 8.0  | 15  | 2    | -        | -     | 8                 | 4.0               | 1000/2000 | <b>TO-92</b><br>1.80Typ. 1.27Typ. .56<br>3.85 1.27 4.83<br>3.98 2.54 14.97 4.03<br>1.02Typ. Typ. |
| 2N5246   | 30                | 0.50                 | 4.0  | 15  | 10   | -        | -     | 4.5               | 1.0               |           |                                                                                                  |
| 2N5247   | 30                | 1.50                 | 8.0  | 15  | 10   | -        | -     | 4.5               | 1.0               |           |                                                                                                  |
| 2N5457   | 25                | 0.50                 | 6.0  | 15  | 10   | 1.0      | 5.0   | 7                 | 3.0               |           |                                                                                                  |
| 2N5458   | 25                | 1.00                 | 7.0  | 15  | 10   | 1.5      | 5.5   | 7                 | 3.0               |           |                                                                                                  |
| 2N5459   | 25                | 2.00                 | 8.0  | 15  | 10   | 2.0      | 6.0   | 7                 | 3.0               |           |                                                                                                  |
| 2N5484   | 25                | 0.30                 | 3.0  | 15  | 10   | -        | -     | 5                 | 1.0               |           |                                                                                                  |
| 2N5485   | 25                | 0.50                 | 4.0  | 15  | 10   | -        | -     | 5                 | 1.0               |           |                                                                                                  |
| 2N5486   | 25                | 2.00                 | 6.0  | 15  | 10   | -        | -     | 5                 | 1.0               |           |                                                                                                  |
| 2N5639   | 30                | -                    | 8.0  | 15  | 1    | -        | -     | 10                | 4.0               |           |                                                                                                  |
| 2N5640   | 30                | -                    | -    | -   | -    | -        | -     | 10                | 4.0               |           |                                                                                                  |
| 2N5949   | 30                | 3.00                 | 7.0  | 15  | 100  | -        | -     | 6                 | 2.0               |           |                                                                                                  |
| 2N5950   | 30                | 2.50                 | 6.0  | 15  | 100  | -        | -     | 6                 | 2.0               |           |                                                                                                  |
| 2N5951   | 30                | 2.00                 | 5.0  | 15  | 100  | -        | -     | 6                 | 2.0               |           |                                                                                                  |
| 2N5952   | 30                | 1.30                 | 4.5  | 15  | 100  | -        | -     | 6                 | 2.0               |           |                                                                                                  |
| BF245A   | 30                | 0.50                 | 8.0  | 15  | 10   | 3.0      | 6.5   | 4                 | 1.1               |           |                                                                                                  |
| PN4092   | 40                | 2.00                 | 7.0  | 20  | 1    | -        | -     | 16                | 5.0               |           |                                                                                                  |
| PN4093   | 40                | 1.00                 | 5.0  | 20  | 1    | -        | -     | 16                | 5.0               |           |                                                                                                  |
| PN4118   | 40                | 1.00                 | 3.0  | 10  | 1    | 80.0     | 250.0 | 3                 | 1.5               |           |                                                                                                  |
| PN4303   | 30                | -                    | 6.0  | 20  | 10   | 2.0      | -     | 6                 | 3.0               |           |                                                                                                  |
| PN4391   | 40                | 4.00                 | 10.0 | 20  | 1    | -        | -     | 14                | 3.5               |           |                                                                                                  |
| PN4393   | 40                | 0.50                 | 3.0  | 20  | 1    | -        | -     | 14                | 3.5               |           |                                                                                                  |
| PN5434   | 25                | 1.00                 | 4.0  | 5   | 3    | -        | -     | 30                | 15.0              |           |                                                                                                  |
| TI873    | 30                | 4.00                 | 10.0 | 15  | 4    | -        | -     | 18                | 8.0               |           |                                                                                                  |

# N-Channel Metal Can JFET's

| Part No. | $BV_{DS}$<br>Min. | $V_P @ V_{DS} & I_D$ |      |     |      | $G_{fs}$ |      | $C_{iss}$<br>Max. | $C_{rss}$<br>Max. | Package | Outline<br>(Typ. in mm)                                                                        |
|----------|-------------------|----------------------|------|-----|------|----------|------|-------------------|-------------------|---------|------------------------------------------------------------------------------------------------|
|          | (V)               | Min.                 | Max. | (V) | (nA) | Min.     | Max. | (pF)              | (pF)              | Bulk    |                                                                                                |
| 2N4338   | 50                | 0.3                  | 1.0  | 15  | 100  | 0.6      | 1.8  | 7.0               | 3.0               | 250     | <b>TO-18</b><br>4.699 1.270 2.540<br>4.828 5.578<br>0.762 Max. 12.70 Min.<br>0.443 1.041 0.805 |
| 2N4339   |                   | 0.6                  | 1.8  | 15  | 100  | 0.8      | 2.4  | 7.0               | 3.0               |         |                                                                                                |
| 2N4340   |                   | 1.0                  | 3.0  | 15  | 100  | 1.3      | 3.0  | 7.0               | 3.0               |         |                                                                                                |
| 2N4341   |                   | 2.0                  | 6.0  | 15  | 100  | 2.0      | 4.0  | 7.0               | 3.0               |         |                                                                                                |

| Part No. | $BV_{DS}$<br>Min. | $V_P @ V_{DS} & I_D$ |      |     |      | $R_{DS(on)} @ I_D$ |      | $C_{iss}$<br>Max. | $C_{rss}$<br>Max. | $t_{on}$<br>Max. | $t_{off}$<br>Max. | Package | Outline<br>(Typ. in mm)                                                                        |
|----------|-------------------|----------------------|------|-----|------|--------------------|------|-------------------|-------------------|------------------|-------------------|---------|------------------------------------------------------------------------------------------------|
|          | (V)               | Min.                 | Max. | (V) | (nA) | Min.               | (mA) | (pF)              | (pF)              | (ns)             | (ns)              | Bulk    |                                                                                                |
| 2N3971   | 40                | 2.0                  | 5.0  | 20  | 1.0  | 60                 | 1    | 25.0              | 6.0               | 30               | 60                | 250     | <b>TO-18</b><br>4.699 1.270 2.540<br>4.828 5.578<br>0.762 Max. 12.70 Min.<br>0.443 1.041 0.805 |
| 2N4091   |                   | 5.0                  | 10.0 | 20  | 1.0  | 30                 | 1    | 15.0              | 5.0               | 25               | 40                |         |                                                                                                |
| 2N4092   |                   | 2.0                  | 7.0  | 20  | 1.0  | 50                 | 1    | 15.0              | 5.0               | 35               | 60                |         |                                                                                                |
| 2N4093   |                   | 1.0                  | 5.0  | 20  | 1.0  | 80                 | 1    | 15.0              | 5.0               | 60               | 80                |         |                                                                                                |
| 2N4391   |                   | 4.0                  | 10.0 | 20  | 1.0  | 30                 | 1    | 14.0              | 3.5               | 15               | 20                |         |                                                                                                |
| 2N4392   | 30                | 2.0                  | 5.0  | 20  | 1.0  | 60                 | 1    | 14.0              | 3.5               | 15               | 35                |         |                                                                                                |
| 2N4856   |                   | 4.0                  | 10.0 | 15  | 0.5  | 25                 | -    | 18.0              | 8.0               | 9                | 25                |         |                                                                                                |
| 2N4858   |                   | 0.8                  | 4.0  | 15  | 0.5  | 60                 | -    | 18.0              | 8.0               | 20               | 100               |         |                                                                                                |
| 2N4858A  |                   | 0.8                  | 4.0  | 15  | 0.5  | 60                 | -    | 10.0              | 3.5               | 16               | 80                |         |                                                                                                |
| 2N4393   |                   | 0.5                  | 3.0  | 20  | 1.0  | 100                | 1    | 14.0              | 3.5               | 15               | 55                |         |                                                                                                |
| 2N4859   | 30                | 4.0                  | 10.0 | 15  | 0.5  | 25                 | -    | 18.0              | 8.0               | 9                | 25                |         |                                                                                                |
| 2N4860   |                   | 2.0                  | 6.0  | 15  | 0.5  | 40                 | -    | 18.0              | 8.0               | 10               | 50                |         |                                                                                                |
| 2N4860A  |                   | 2.0                  | 6.0  | 15  | 0.5  | 40                 | -    | 10.0              | 3.5               | 10               | 40                |         |                                                                                                |
| 2N4861   |                   | 0.8                  | 4.0  | 15  | 0.5  | 60                 | -    | 18.0              | 8.0               | 20               | 100               |         |                                                                                                |