

# SMALL FET Product Specifications (Cont'd)

| N & P-Channel Single JFETs |        |                   |                       |      |                                   |                                   |                               |      |                                      |      |                                    |                                                                       |                         |
|----------------------------|--------|-------------------|-----------------------|------|-----------------------------------|-----------------------------------|-------------------------------|------|--------------------------------------|------|------------------------------------|-----------------------------------------------------------------------|-------------------------|
| PART NUMBER                | N or P | PACKAGE<br>(TO- ) | LEAKAGE<br>(nA, MAX.) |      | THRESHOLD<br>VOLTAGE<br>(V, MAX.) | BREAKDOWN<br>VOLTAGE<br>(V, MAX.) | SATURATION<br>CURRENT<br>(mA) |      | TRANS-<br>CONDUCTANCE<br>gfs (umhos) |      | INPUT<br>CAPACITANCE<br>(pF, MAX.) | NOISE VOLTAGE<br>(nV/ $\sqrt{\text{Hz}}$ , MAX.) or<br>(NF, dB, MAX.) | RESISTANCE              |
|                            |        |                   | Gate                  | Chnl |                                   |                                   | Min.                          | Max. | Min.                                 | Max. |                                    |                                                                       | Gate<br>$\Omega$        |
|                            |        |                   |                       |      |                                   |                                   |                               |      |                                      |      |                                    |                                                                       | Chnl<br>$\Omega$ , Max. |
| 2N5640                     | N      | 92                | 1.0                   | 1.0  | 6.0                               | 30                                | 5.0                           | -    | -                                    | -    | 10                                 | -                                                                     | 100                     |
| 2N5653                     | N      | 92                | 1.0                   | 1.0  | 12                                | 30                                | 40                            | -    | -                                    | -    | 10                                 | -                                                                     | 50                      |
| 2N5654                     | N      | 92                | 1.0                   | 1.0  | 8.0                               | 30                                | 15                            | -    | -                                    | -    | 10                                 | -                                                                     | 100                     |
| J105                       | N      | 92                | 3.0                   | 3.0  | 10.0                              | 25                                | 500                           | -    | -                                    | -    | -                                  | -                                                                     | 3.0                     |
| J105-18                    | N      | 92                | 3.0                   | 3.0  | 10                                | 25                                | 500                           | -    | -                                    | -    | -                                  | -                                                                     | 3.0                     |
| J106                       | N      | 92                | 3.0                   | 3.0  | 6.0                               | 25                                | 200                           | -    | -                                    | -    | -                                  | -                                                                     | 6.0                     |
| J106-18                    | N      | 92                | 3.0                   | 3.0  | 6.0                               | 25                                | 200                           | -    | -                                    | -    | -                                  | -                                                                     | 6.0                     |
| J107                       | N      | 92                | 3.0                   | 3.0  | 4.5                               | 25                                | 100                           | -    | -                                    | -    | -                                  | -                                                                     | 8.0                     |
| J107-18                    | N      | 92                | 3.0                   | 3.0  | 4.5                               | 25                                | 100                           | -    | -                                    | -    | -                                  | -                                                                     | 8.0                     |
| J108                       | N      | 92                | 3.0                   | 3.0  | 10                                | 25                                | 80                            | -    | -                                    | -    | -                                  | -                                                                     | 8.0                     |
| J108-18                    | N      | 92                | 3.0                   | 3.0  | 10                                | 25                                | 80                            | -    | -                                    | -    | -                                  | -                                                                     | 8.0                     |
| J109                       | N      | 92                | 3.0                   | 3.0  | 6.0                               | 25                                | 40                            | -    | -                                    | -    | -                                  | -                                                                     | 12                      |
| J109-18                    | N      | 92                | 3.0                   | 3.0  | 6.0                               | 25                                | 40                            | -    | -                                    | -    | -                                  | -                                                                     | 12                      |
| J110                       | N      | 92                | 3.0                   | 3.0  | 4.0                               | 25                                | 10                            | -    | -                                    | -    | -                                  | -                                                                     | 18                      |
| J110-18                    | N      | 92                | 3.0                   | 3.0  | 4.0                               | 25                                | 10                            | -    | -                                    | -    | -                                  | -                                                                     | 18                      |
| J111                       | N      | 92                | 1.0                   | 1.0  | 10                                | 35                                | 20                            | -    | -                                    | -    | -                                  | -                                                                     | 30                      |
| J111-18                    | N      | 92                | 1.0                   | 1.0  | 10                                | 35                                | 20                            | -    | -                                    | -    | -                                  | -                                                                     | 30                      |
| J112                       | N      | 92                | 1.0                   | 1.0  | 5.0                               | 35                                | 5.0                           | -    | -                                    | -    | -                                  | -                                                                     | 50                      |
| J112-18                    | N      | 92                | 1.0                   | 1.0  | 5.0                               | 35                                | 5.0                           | -    | -                                    | -    | -                                  | -                                                                     | 50                      |
| J113                       | N      | 92                | 1.0                   | 1.0  | 3.0                               | 35                                | 2.0                           | -    | -                                    | -    | -                                  | -                                                                     | 100                     |
| J113-18                    | N      | 92                | 1.0                   | 1.0  | 3.0                               | 35                                | 2.0                           | -    | -                                    | -    | -                                  | -                                                                     | 100                     |
| J174                       | P      | 92                | 1.0                   | 1.0  | 10                                | 30                                | 20                            | 100  | -                                    | -    | -                                  | -                                                                     | 85                      |
| J174-18                    | P      | 92                | 1.0                   | 1.0  | 10                                | 30                                | 20                            | 100  | -                                    | -    | -                                  | -                                                                     | 85                      |
| J175                       | P      | 92                | 1.0                   | 1.0  | 6.0                               | 30                                | 7.0                           | 60   | -                                    | -    | -                                  | -                                                                     | 125                     |
| J175-18                    | P      | 92                | 1.0                   | 1.0  | 6.0                               | 30                                | 7.0                           | 60   | -                                    | -    | -                                  | -                                                                     | 125                     |
| J176                       | P      | 92                | 1.0                   | 1.0  | 4.0                               | 30                                | 2.0                           | 25   | -                                    | -    | -                                  | -                                                                     | 250                     |
| J176-18                    | P      | 92                | 1.0                   | 1.0  | 4.0                               | 30                                | 2.0                           | 25   | -                                    | -    | -                                  | -                                                                     | 250                     |
| J177                       | P      | 92                | 1.0                   | 1.0  | 2.25                              | 30                                | 1.5                           | 20   | -                                    | -    | -                                  | -                                                                     | 300                     |
| J177-18                    | P      | 92                | 1.0                   | 1.0  | 2.25                              | 30                                | 1.5                           | 20   | -                                    | -    | -                                  | -                                                                     | 300                     |
| PN4391                     | N      | 92                | 1.0                   | 1.0  | 10                                | 40                                | 50                            | 150  | -                                    | -    | 14                                 | -                                                                     | 30                      |
| PN4391-18                  | N      | 92                | 1.0                   | 1.0  | 10                                | 40                                | 50                            | 150  | -                                    | -    | 14                                 | -                                                                     | 30                      |
| PN4392                     | N      | 92                | 1.0                   | 1.0  | 5.0                               | 40                                | 25                            | 100  | -                                    | -    | 14                                 | -                                                                     | 60                      |
| PN4392-18                  | N      | 92                | 1.0                   | 1.0  | 5.0                               | 40                                | 25                            | 100  | -                                    | -    | 14                                 | -                                                                     | 60                      |
| PN4393                     | N      | 92                | 1.0                   | 1.0  | 3.0                               | 40                                | 5.0                           | 60   | -                                    | -    | 14                                 | -                                                                     | 100                     |
| PN4393-18                  | N      | 92                | 1.0                   | 1.0  | 3.0                               | 40                                | 5.0                           | 60   | -                                    | -    | 14                                 | -                                                                     | 100                     |
| P1086                      | P      | 92                | 2.0                   | 10.0 | 10                                | 30                                | 10                            | -    | -                                    | -    | 45                                 | -                                                                     | 75                      |
| P1086-18                   | P      | 92                | 2.0                   | 10.0 | 10                                | 30                                | 10                            | -    | -                                    | -    | 45                                 | -                                                                     | 75                      |