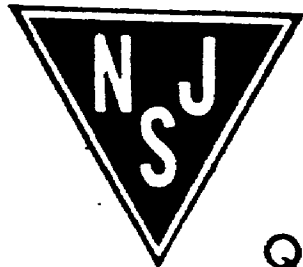


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| Device    | Polar | Can | P <sub>tot</sub><br>25 °C<br>W | I <sub>C</sub><br>max<br>mA | V <sub>BR</sub><br>min |                     |                     | I <sub>CBO</sub><br>max<br>nA | hFE |     | V <sub>CE sat</sub> |                      | C <sub>ob</sub><br>max<br>pF | F <sub>T</sub><br>min<br>MHz | N <sub>F</sub><br>max<br>dB | f <sub>c</sub><br>kHz | t <sub>on</sub><br>max<br>ns | t <sub>off</sub><br>max<br>ns | I <sub>e</sub><br>mA | Remarks                      |       |
|-----------|-------|-----|--------------------------------|-----------------------------|------------------------|---------------------|---------------------|-------------------------------|-----|-----|---------------------|----------------------|------------------------------|------------------------------|-----------------------------|-----------------------|------------------------------|-------------------------------|----------------------|------------------------------|-------|
|           |       |     |                                |                             | C <sub>B</sub><br>V    | C <sub>E</sub><br>V | E <sub>B</sub><br>V |                               | min | max | VCE<br>V            | I <sub>C</sub><br>mA |                              |                              |                             |                       |                              |                               |                      |                              |       |
| 2N 1420   | N     | 39  | 1.00                           | 1000                        | 60                     | 30                  | 5.0                 | 1000                          | 100 | 300 | 10                  | 150                  | 1.50                         | 150                          | 35                          | 50                    |                              |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1507   | N     | 39  | 1.00                           | 1000                        | 60                     | 30                  | 5.0                 | 1000                          | 100 | 300 | 10                  | 150                  | 1.50                         | 150                          | 35                          | 50                    |                              |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1564   | N     | 39  | 0.60                           | 100                         | 80                     | 60                  | 5.0                 | 1000                          | 20  | 50  | 5                   | 5                    | 1.00                         | 2                            | 10                          | 30                    |                              |                               |                      |                              |       |
| 2N 1565   | N     | 39  | 0.60                           | 100                         | 80                     | 60                  | 5.0                 | 1000                          | 40  | 100 | 5                   | 5                    | 1.00                         | 2                            | 10                          | 60                    |                              |                               |                      |                              |       |
| 2N 1565 A | N     | 39  | 0.60                           | 100                         | 80                     | 60                  | 8.0                 | 500                           | 40  | 100 | 5                   | 5                    | 0.60                         | 10                           | 6                           | 60                    |                              |                               |                      |                              |       |
| 2N 1566   | N     | 39  | 0.60                           | 100                         | 80                     | 60                  | 5.0                 | 1000                          | 80  | 200 | 5                   | 5                    | 1.00                         | 2                            | 10                          | 60                    |                              |                               |                      |                              |       |
| 2N 1566 A | N     | 39  | 0.60                           | 100                         | 80                     | 60                  | 8.0                 | 500                           | 60  | 200 | 5                   | 5                    | 0.60                         | 10                           | 6                           | 100                   |                              |                               |                      |                              |       |
| 2N 1572   | N     | 39  | 0.60                           | 100                         | 125                    | 80                  | 5.0                 | 1000                          | 20  | 50  | 5                   | 5                    | 1.00                         | 10                           | 10                          | 30                    |                              |                               |                      |                              |       |
| 2N 1573   | N     | 39  | 0.60                           | 100                         | 125                    | 80                  | 5.0                 | 1000                          | 40  | 100 | 5                   | 5                    | 1.00                         | 10                           | 10                          | 60                    |                              |                               |                      |                              |       |
| 2N 1574   | N     | 39  | 0.60                           | 100                         | 125                    | 80                  | 5.0                 | 1000                          | 80  | 200 | 5                   | 5                    | 1.00                         | 10                           | 10                          | 60                    |                              |                               |                      |                              |       |
| 2N 1613   | N     | 39  | 1.00                           | 1000                        | 75                     | 50                  | 7.0                 | 10                            | 40  | 120 | 10                  | 150                  | 1.50                         | 150                          | 25                          | 60                    |                              |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1711   | N     | 39  | 1.00                           | 1000                        | 75                     | 50                  | 7.0                 | 10                            | 100 | 300 | 10                  | 150                  | 1.50                         | 150                          | 25                          | 70                    |                              |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1711 A | N     | 39  | 1.00                           | 1000                        | 75                     | 40                  | 7.0                 | 10                            | 100 | 300 | 10                  | 150                  | 1.50                         | 150                          | 25                          | 70                    | 12                           |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1889   | N     | 39  | 1.00                           | 1000                        | 100                    | 80                  | 7.0                 | 10                            | 40  | 120 | 10                  | 150                  | 5.00                         | 150                          | 15                          | 50                    | 8                            | 1                             |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1890   | N     | 39  | 1.00                           | 1000                        | 100                    | 80                  | 7.0                 | 10                            | 100 | 300 | 10                  | 150                  | 5.00                         | 150                          | 15                          | 60                    | 8                            | 1                             |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1893   | N     | 39  | 1.00                           | 1000                        | 120                    | 100                 | 7.0                 | 10                            | 40  | 120 | 10                  | 150                  | 5.00                         | 150                          | 15                          | 50                    |                              |                               |                      | V <sub>CE sat</sub> @ 500 mA | 0.5 V |
| 2N 1983   | N     | 39  | 1.00                           | 1000                        | 50                     | 25                  | 5.0                 | 5000                          | 80  | 240 | 5                   | 5                    | 0.25                         | 5                            | 45                          | 40                    |                              |                               |                      |                              |       |
| 2N 1990   | N     | 39  | 0.60                           | 50                          | 100                    |                     | 3.0                 | 1000                          | 20  |     | 10                  | 30                   | 0.50                         | 30                           | 20                          | 40                    |                              |                               |                      |                              |       |
| 2N 1990 R | N     | 18  | 0.25                           | 50                          | 100                    |                     | 3.0                 | 1000                          | 25  |     | 0.5                 | 2                    | 0.50                         | 2                            | 20                          | 40                    |                              |                               |                      |                              |       |
| 2N 1990 S | N     | 39  | 0.60                           | 50                          | 100                    |                     | 3.0                 | 1000                          | 25  |     | 0.5                 | 2                    | 0.50                         | 2                            | 20                          | 40                    |                              |                               |                      |                              |       |
| 2N 2102   | N     | 39  | 1.00                           | 1000                        | 120                    | 65                  | 7.0                 | 2                             | 40  | 120 | 10                  | 150                  | 0.50                         | 150                          | 15                          | 120                   |                              |                               |                      | hFE @ 1 A                    | 10    |
| 2N 2102 A | N     | 39  | 1.00                           | 1000                        | 120                    | 65                  | 7.0                 | 2                             | 40  | 120 | 10                  | 150                  | 0.50                         | 150                          | 15                          | 60                    |                              |                               |                      | hFE @ 1 A                    | 10    |
| 2N 2192   | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 100 | 300 | 10                  | 150                  | 0.25                         | 150                          | 20                          | 50                    | 6                            | 1                             |                      | hFE @ 1 A                    | 15    |
| 2N 2192 A | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 100 | 300 | 10                  | 150                  | 0.25                         | 150                          | 20                          | 50                    | 6                            | 1                             |                      | hFE @ 1 A                    | 15    |
| 2N 2192 B | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 100 | 300 | 10                  | 150                  | 0.18                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 1 A                    | 15    |
| 2N 2193   | N     | 39  | 1.00                           | 1000                        | 80                     | 50                  | 8.0                 | 10                            | 40  | 120 | 10                  | 150                  | 0.35                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 1 A                    | 15    |
| 2N 2193 A | N     | 39  | 1.00                           | 1000                        | 80                     | 50                  | 8.0                 | 10                            | 40  | 120 | 10                  | 150                  | 0.25                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 1 A                    | 15    |
| 2N 2193 B | N     | 39  | 1.00                           | 1000                        | 80                     | 50                  | 8.0                 | 10                            | 40  | 120 | 10                  | 150                  | 0.18                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 1 A                    | 15    |
| 2N 2194   | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 20  | 60  | 10                  | 150                  | 0.35                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 500 mA                 | 12    |
| 2N 2194 A | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 20  | 60  | 10                  | 150                  | 0.25                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 500 mA                 | 12    |
| 2N 2194 B | N     | 39  | 1.00                           | 1000                        | 60                     | 40                  | 5.0                 | 10                            | 20  | 60  | 10                  | 150                  | 0.18                         | 150                          | 20                          | 50                    |                              |                               |                      | hFE @ 500 mA                 | 12    |
| 2N 2195   | N     | 39  | 1.00                           | 1000                        | 45                     | 25                  | 5.0                 | 100                           | 20  |     | 10                  | 150                  | 0.35                         | 150                          | 20                          | 50                    |                              |                               |                      |                              |       |
| 2N 2195 A | N     | 39  | 1.00                           | 1000                        | 45                     | 25                  | 5.0                 | 100                           | 20  |     | 10                  | 150                  | 0.25                         | 150                          | 20                          | 50                    |                              |                               |                      |                              |       |
| 2N 2195 B | N     | 39  | 1.00                           | 1000                        | 45                     | 25                  | 5.0                 | 100                           | 20  |     | 10                  | 150                  | 0.18                         | 150                          | 20                          | 50                    |                              |                               |                      |                              |       |
| 2N 2217   | N     | 39  | 1.00                           | 800                         | 60                     | 30                  | 5.0                 | 10                            | 20  | 60  | 10                  | 150                  | 0.40                         | 150                          | 8                           | 250                   |                              |                               |                      |                              |       |



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