

**CASE TO-66**  
**IC(MAX) = 1-5A**  
**VCEO(SUS) = 40-425V**

**PNP Power Transistors**

| Type No. | NPN complement | VCEO (sus) (V)   | IC (max) (A) | hFE@IC/VCE (min-max @ AV) | VCE(SAT) @ IC/IB (V @ A/A) | VBE @ IC/VCE (V @ AV) | VBE (SAT) @ IC/IB (V @ A/A) | ICEV @ VCE (mA @ V) | PD@ TC = 100°C (Watts) | I <sub>h</sub> @ VCE t = 1 sec (A @ V) | f <sub>r</sub> (MHz) | t <sub>on</sub> @ IC/IB (µs @ A/A) | t <sub>off</sub> @ IC/IB (µs @ A/A) |
|----------|----------------|------------------|--------------|---------------------------|----------------------------|-----------------------|-----------------------------|---------------------|------------------------|--|----------------------|------------------------------------|-------------------------------------|
| 2N3740   | 2N3766         | 60               | 1            | 30-100 @ .25/1            | .6 @ 1/125                 | 1 @ .25/1             |                             | .1 @ 60             | 25                     | 1.5 @ 17                               | 4                    |                                    |                                     |
| 2N3740A  |                | 60               | 1            | 30-100 @ .25/1            | .6 @ 1/125                 | 1 @ .25/1             |                             | .0001 @ 60          | 25                     | 1.5 @ 17                               | 4                    |                                    |                                     |
| 2N3741   | 2N3767         | 80               | 1            | 30-100 @ .25/1            | .6 @ 1/125                 | 1 @ .25/1             |                             | .1 @ 80             | 25                     | 1.5 @ 17                               | 4                    |                                    |                                     |
| 2N3741A  |                | 80               | 1            | 30-100 @ .25/1            | .6 @ 1/125                 | 1 @ .25/1             |                             | .0001 @ 80          | 25                     | 1.5 @ 17                               | 4                    |                                    |                                     |
| 2N4898   | 2N4910         | 40               | 1            | 20-100 @ .5/1             | .6 @ 1/1                   | 1.3 @ 1/1             |                             | .1 @ 40             | 25                     | 1.5 @ 17                               | 3                    |                                    |                                     |
| 2N4899   | 2N4911         | 60               | 1            | 20-100 @ .5/1             | .6 @ 1/1                   | 1.3 @ 1/1             |                             | .1 @ 60             | 25                     | 1.5 @ 17                               | 3                    |                                    |                                     |
| 2N4900   | 2N4912         | 80               | 1            | 20-100 @ .5/1             | .6 @ 1/1                   | 1.3 @ 1/1             |                             | .1 @ 80             | 25                     | 1.5 @ 17                               | 3                    |                                    |                                     |
| 2N5344   |                | 250              | 1            | 25-100 @ .5/5             | 3 @ 1/1.2                  |                       | 1.5 @ 1/2                   | .1 @ 22             | 40                     | 1 @ 22                                 | 10 <sup>h</sup>      | .2 @ 5/05                          | .7 @ 5/05                           |
| 2N5345   |                | 300              | 1            | 25-100 @ .5/5             | 3 @ 1/2                    |                       | 1.5 @ 1/2                   | .1 @ 270            | 40                     | 1 @ 22                                 | 10 <sup>h</sup>      | .2 @ 5/05                          | .7 @ 5/05                           |
| 2N5954   | 2N6374         | 80               | 6            | 20-100 @ 2/4              | 1 @ 2/2                    | 2 @ 2/4               |                             | .1 @ 85             | 40                     | 1.75 @ 23                              | 5                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N5955   | 2N6373         | 80               | 6            | 20-100 @ 1.5/4            | 1 @ 2.5/2.5                | 2 @ 2.5/4             |                             | .1 @ 65             | 40                     | 1.75 @ 23                              | 5                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N5956   | 2N6372         | 40               | 6            | 20-100 @ 3/4              | 1 @ 3/3                    | 2 @ 3/4               |                             | .1 @ 45             | 40                     | 1.75 @ 23                              | 5                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N6049   | 2N3054A        | 55               | 4            | 25-100 @ .5/4             | .5 @ 5/05                  | 1 @ .5/4              |                             |                     | 75                     | 3 @ 25                                 | 3                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N6211   | 2N3583         | 250 <sup>h</sup> | 2            | 10-100 @ 1/2.8            | 1.4 @ 1/125                |                       | 1.4 @ 1/125                 | .1 @ 90             | 35                     | .875 @ 40                              | 20                   | .6 @ 1/125                         | 3.1 @ 1/125                         |
| 2N6212   | 2N3584         | 325 <sup>h</sup> | 2            | 10-100 @ 1/3.2            | 1.6 @ 1/125                |                       | 1.4 @ 1/125                 | .5 @ 250            | 35                     | .875 @ 40                              | 20                   | .6 @ 1/125                         | 3.1 @ 1/125                         |
| 2N6213   | 2N3585         | 375 <sup>h</sup> | 2            | 10-100 @ 1/4              | 2 @ 1/125                  |                       | 1.4 @ 1/125                 | .2 @ 360            | 35                     | .875 @ 40                              | 20                   | .6 @ 1/125                         | 3.1 @ 1/125                         |
| 2N6214   |                | 425 <sup>h</sup> | 2            | 10-100 @ 1/5              | 2.5 @ 1/125                |                       | 1.4 @ 1/125                 | .5 @ 410            | 35                     | .875 @ 40                              | 20                   | .6 @ 1/125                         | 3.1 @ 1/125                         |
| 2N6312   | 2N4232A        | 40               | 5            | 25-100 @ 1.5/4            | .7 @ 1.5/15                | 1.4 @ 1.5/4           |                             | .1 @ 40             | 75                     | 3 @ 25                                 | 4                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N6313   | 2N4233A        | 60               | 5            | 25-100 @ 1.5/4            | .7 @ 1.5/15                | 1.4 @ 1.5/4           |                             | .1 @ 60             | 75                     | 3 @ 25                                 | 4                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N6314   | 2N4233A        | 80               | 5            | 25-100 @ 1.5/4            | .7 @ 1.5/15                | 1.4 @ 1.5/4           |                             | .1 @ 80             | 75                     | 3 @ 25                                 | 4                    | .7 @ 1.5/15                        | 1.8 @ 1.5/15                        |
| 2N6317   | 2N6315         | 60               | 7            | 20-100 @ 2.5/4            | 1 @ 4/4                    | 1.5 @ 2.5/4           |                             | .25 @ 60            | 90                     | 3 @ 30                                 | 4                    | .7 @ 2.5/25                        | 1.8 @ 2.5/25                        |
| 2N6318   | 2N6316         | 80               | 7            | 20-100 @ 2.5/4            | 1 @ 4/4                    | 1.5 @ 2.5/4           |                             | .25 @ 80            | 90                     | 3 @ 30                                 | 4                    | .7 @ 2.5/25                        | 1.8 @ 2.5/25                        |

NOTES: h) VCER (V) i) typical

**CASE TO-59/TO-111**  
**IC(MAX) = 3A-10A**  
**VCEO(SUS) = 40-100V**

**NPN Power Transistors**

| Type No.            | VCEO (sus) (V) | IC (max) (A) | hFE@IC/VCE (min-max @ AV) | VCE(SAT) @ IC/IB (V @ A/A) | VBE @ IC/VCE (V @ AV) | VBE (SAT) @ IC/IB (V @ AV) | ICEV @ VCE (mA @ V)     | PD@ TC = 25°C (Watts) | I <sub>h</sub> @ VCE t = 1 sec (A @ V) | f <sub>r</sub> (MHz) | t <sub>on</sub> @ IC/IB (µs @ A/A) | t <sub>off</sub> @ IC/IB (µs @ A/A) |
|---------------------|----------------|--------------|---------------------------|----------------------------|-----------------------|----------------------------|-------------------------|-----------------------|--|----------------------|------------------------------------|-------------------------------------|
| 2N2877              | 50             | 5            | 20-60 @ 1/2               | 2 @ 5/5                    | 1.2 @ 1/2             |                            | .01 @ 80                | 30                    | 2.5 @ 12                               | 30                   | .3 @ 1/1                           | 1.5 @ 1/1                           |
| 2N2878              | 50             | 5            | 40-120 @ 1/2              | 2 @ 5/5                    | 1.2 @ 1/2             |                            | .01 @ 80                | 30                    | 2.5 @ 12                               | 50                   | .3 @ 1/1                           | 1.5 @ 1/1                           |
| 2N2879              | 70             | 5            | 20-60 @ 1/2               | 2 @ 5/5                    | 1.2 @ 1/2             |                            | .01 @ 100               | 30                    | 2.5 @ 12                               | 30                   | .3 @ 1/1                           | 1.5 @ 1/1                           |
| 2N2880              | 70             | 5            | 40-120 @ 1/2              | 2 @ 5/5                    | 1.2 @ 1/2             |                            | .01 @ 100               | 30                    | 1.5 @ 12                               | 50                   | .3 @ 1/1                           | 1.5 @ 1/1                           |
| 2N2892              | 80             | 5            | 30-90 @ 1/2               | .75 @ 2/2                  |                       | 1.2 @ 1/1                  | .1 @ 100                | 17                    | 3 @ 10                                 | 30                   | .3 @ 1/05                          | 1.5 @ 1/05                          |
| 2N2893              | 80             | 5            | 50-150 @ 1/2              | .75 @ 2/2                  |                       | 1.2 @ 1/1                  | .1 @ 100                | 17                    | 3 @ 10                                 | 30                   | .3 @ 1/05                          | 1.5 @ 1/05                          |
| 2N3850              | 80             | 5            | 50-150 @ 1/1              | .5 @ 2/2                   |                       | 1.3 @ 2/2                  | .0001 <sup>h</sup> @ 80 | 40                    |  | 20                   | .2 @ 1/05                          | .9 @ 1/05                           |
| 2N3851              | 80             | 5            | 30-90 @ 1/1               | .5 @ 2/2                   |                       | 1.3 @ 2/2                  | .0001 <sup>h</sup> @ 80 | 40                    |  | 20                   | .2 @ 1/05                          | .9 @ 1/05                           |
| 2N3852              | 40             | 5            | 50-150 @ 1/1              | .5 @ 2/2                   |                       | 1.3 @ 2/2                  | .0001 <sup>h</sup> @ 40 | 40                    |  | 20                   | .2 @ 1/05                          | .9 @ 1/05                           |
| 2N2853              | 40             | 5            | 30-90 @ 1/1               | .5 @ 2/2                   |                       | 1.3 @ 2/2                  | .0001 <sup>h</sup> @ 40 | 40                    |  | 20                   | .2 @ 1/05                          | .9 @ 1/05                           |
| 2N3998 <sup>*</sup> | 80             | 5            | 40-120 @ 1/2              | 2 @ 5/5                    |                       | .6-1.2 @ 1/1               | .005 <sup>h</sup> @ 90  | 30                    | 1.5 @ 20                               | 40                   | .3 @ 1/1                           | 1.5 @ 1/1                           |
| 2N3999 <sup>*</sup> | 80             | 5            | 80-240 @ 1/2              | 2 @ 5/5                    |                       | .6-1.2 @ 1/1               | .005 <sup>h</sup> @ 90  | 30                    | 1.5 @ 20                               | 40                   | .3 @ 1/1                           | 2 @ 1/1                             |
| 2N5477              | 80             | 7            | 30-120 @ 2/2              | 1.2 @ 7/7                  |                       | 1.2 @ 2/2                  | .01 <sup>h</sup> @ 80   | 34                    | 3 @ 20                                 | 30                   | .2 @ 2/2                           | 2.2 @ 2/2                           |
| 2N5478              | 80             | 7            | 60-240 @ 2/2              | 1.2 @ 7/7                  |                       | 1.2 @ 2/2                  | .01 <sup>h</sup> @ 80   | 34                    |  | 30                   | .2 @ 2/2                           | 2.2 @ 2/2                           |
| 2N5479              | 100            | 7            | 30-120 @ 2/2              | 1.2 @ 7/7                  |                       | 1.2 @ 2/2                  | .01 <sup>h</sup> @ 100  | 34                    |  | 30                   | .2 @ 2/2                           | 2.2 @ 2/2                           |
| 2N5480              | 100            | 7            | 60-240 @ 2/2              | 1.2 @ 7/7                  |                       | 1.2 @ 2/2                  | .01 <sup>h</sup> @ 100  | 34                    |  | 30                   | .2 @ 2/2                           | 2.2 @ 2/2                           |

NOTES: b) ICBO @ VCB (mA @ V) c) ICES @ VCE (mA @ V) i) typical