

**$I_{C(MAX)} = 1.5A$**   
 **$V_{CEO(SUS)} = 40-425V$**   
 **$f_T = 3-10\text{ MHz}$**

**PNP TO-66**

T-33-01

**Case 809**

| Type No. | NPN Complement | $V_{CEO}$ (SUS) (V) | $I_C$ (MAX) (A) | $h_{FE}$ @ $I_C/V_{CE}$ (min-max @ A/V) | $V_{CE}$ (SAT) @ $I_C/I_B$ (V @ A/A) | $V_{BE}$ @ $I_C/V_{CE}$ (V @ A/V) | $V_{BE}$ (SAT) @ $I_C/I_B$ (V @ A/A) | $I_{CEV}$ @ $V_{CE}$ (mA @ V) | $P_D$ @ $T_C = 25^\circ C$ (Watts) | $I_s/b$ @ $V_{CE}$ $t = 1\text{ sec}$ (A @ V) | $f_T$ (MHz)     | $t_{ON}$ @ $I_C/I_B$ ( $\mu s$ @ A/A) | $t_{OFF}$ @ $I_C/I_B$ ( $\mu s$ @ 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 @ 225                       | 40                                 | 1 @ 22                                        | 10 <sup>f</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>f</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 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 1.5/ 15             |
| 2N5955   | 2N6373         | 80                  | 6               | 20-100 @ 2.5/4                          | 1 @ 2.5/ 25                          | 2 @ 2.5/4                         |                                      | 1 @ 65                        | 40                                 | 1.75 @ 23                                     | 5               | 7 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 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 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 1.5/ 15             |
| 2N6049   | 2N3054A        | 55                  | 4               | 25-100 @ 5/4                            | 5 @ 5/ 05                            | 1 @ 5/4                           |                                      | 1 @ 90                        | 75                                 | 3 @ 25                                        | 3               | 7 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 1.5/ 15             |
| 2N6211   | 2N3583         | 250 <sup>h</sup>    | 2               | 10-100 @ 1/2 8                          | 1.4 @ 1/ 125                         |                                   | 1.4 @ 1/ 125                         | 5 @ 250                       | 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 @ 360                       | 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                         | 5 @ 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 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 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 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 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 <sup>f</sup> @ 1.5/ 15              | 1.8 <sup>f</sup> @ 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)  $V_{CE}$  (V) t) (typical)

**$I_{C(MAX)} = 1.3A$**   
 **$V_{CEO(SUS)} = 40-55V$**   
 **$f_T = 1.25\text{ MHz}$**

**NPN TO-8****Case 802**

| Type No. | $V_{CEO}$ (SUS) (V) | $I_C$ (MAX) (A) | $h_{FE}$ @ $I_C/V_{CE}$ (min-max @ A/V) | $V_{CE}$ (SAT) @ $I_C/I_B$ (V @ A/A) | $V_{BE}$ @ $I_C/V_{CE}$ (V @ A/V) | $I_{CEV}$ @ $V_{CE}$ (mA @ V) | $P_D$ @ $T_C = 25^\circ C$ (Watts) | $I_s/b$ @ $V_{CE}$ $t = 1\text{ sec}$ (A @ V) | $f_T$ (MHz) | $t_{ON}$ @ $I_C/I_B$ ( $\mu s$ @ A/A) | $t_{OFF}$ @ $I_C/I_B$ ( $\mu s$ @ A/A) |
|----------|---------------------|-----------------|-----------------------------------------|--------------------------------------|-----------------------------------|-------------------------------|------------------------------------|-----------------------------------------------|-------------|---------------------------------------|----------------------------------------|
| 2N1483   | 40                  | 3               | 20-60 @ .75/4                           | 2 @ .75/ .075                        | 3.5 @ .75/4                       | .015 <sup>b</sup> @ 30        | 25                                 | 1 <sup>f</sup> @ 25                           | 1.25        | 3 <sup>f</sup> @ 1/ 1                 | 6 <sup>f</sup> @ 1/ 1                  |
| 2N1484   | 55                  | 3               | 20-60 @ .75/4                           | 2 @ .75/ .075                        | 3.5 @ .75/4                       | .015 <sup>b</sup> @ 30        | 25                                 | 1 <sup>f</sup> @ 25                           | 1.25        | 3 <sup>f</sup> @ 1/ 1                 | 6 <sup>f</sup> @ 1/ 1                  |
| 2N1485   | 40                  | 3               | 35-100 @ .75/4                          | 75 @ .75/ .04                        | 2.5 @ .75/4                       | .015 <sup>b</sup> @ 30        | 25                                 | 1 <sup>f</sup> @ 25                           | 1.25        | 3 <sup>f</sup> @ 1/ 1                 | 6 <sup>f</sup> @ 1/ 1                  |
| 2N1486   | 55                  | 3               | 35-100 @ .75/4                          | 75 @ .75/ .04                        | 2.5 @ .75/4                       | .015 <sup>b</sup> @ 30        | 25                                 | 1 <sup>f</sup> @ 25                           | 1.25        | 3 <sup>f</sup> @ 1/ 1                 | 6 <sup>f</sup> @ 1/ 1                  |
| 2N1701   | 40                  | 2.5             | 20-80 @ .3/4                            | 1.5 @ .3/ .03                        | 3 @ .3/4                          | .75 <sup>b</sup> @ 60         | 25                                 | 1 <sup>f</sup> @ 25                           | 0.35        | 3 <sup>f</sup> @ 1/ 1                 | 6 <sup>f</sup> @ 1/ 1                  |

NOTES b)  $I_{C80}$  @  $V_{CB}$  (mA @ V) t) (typical)

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