



NPN TO-111 (isolated collector)(cont'd)  
2848352 DIODE TRANSISTOR CO INC

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D. T-33-11

# DIODE TRANSISTOR CO., INC.

(201) 686-0400 • Telex: 139-385 • Outside NY & NJ area call TOLL FREE 800-528-4581  
FAX No. 201-675-5883

| Type#  | PNP Complement | V <sub>CE(SUS)</sub> (Volts) | I <sub>C</sub> Max | hFE @I <sub>C</sub> /V <sub>CE</sub> (Min-Max @A/V) | V <sub>CE(SAT)</sub> @I <sub>C</sub> /I <sub>B</sub> (V@A/A) | V <sub>BE</sub> @I <sub>C</sub> /V <sub>CE</sub> (V@A/V) | I <sub>CEV</sub> @V <sub>CE</sub> (mA @ V) | P <sub>D</sub> @ T <sub>C</sub> =25°C (Watts) | I <sub>S</sub> /I <sub>B</sub> @V <sub>CE</sub> T=1sec (A@V) | f <sub>r</sub> (MHz) | t <sub>ON</sub> @I <sub>C</sub> /I <sub>B</sub> (s@A/A) | t <sub>OFF</sub> @I <sub>C</sub> /I <sub>B</sub> (s@A/A) |
|--------|----------------|------------------------------|--------------------|---|--|--|--|---|--|----------------------|---|--|
| 2N4115 |                | 80                           | 5.0                | 40-120@2/5  | 1.5@5/5  | 1.3@2/2  | 2 <sup>1</sup> @120                        | 37  | 3.5@10   | 50                   |   |  |
| 2N4116 |                | 80                           | 5.0                | 100-300@2/5   | 1.5@5/5  | 1.3@2/2  | 2 <sup>1</sup> @120                        | 37  | 3.5@10   | 70                   |   |  |
| 2N5002 |                | 80                           | 5.0                | 30-90@2.5/5   | 1.5@5/5  | 1.45@2.5/.25   | 1 <sup>1</sup> @100                        | 33  | 1.8@32   | 60                   |   |  |
| 2N5004 |                | 80                           | 5.0                | 70-200@2.5/5  | 1.5@5/5  | 1.45@2.5/.25   | 1 <sup>1</sup> @100                        | 33  | 1.8@32   | 70                   |   |  |
| 2N5083 |                | 60                           | 10                 | 40-120@2/2  | 1@10/2   | 1.3@5/5  | 1 <sup>1</sup> @120                        | 20  | 2.7@13   | 50                   | .35@5/5   | .65@5/5  |
| 2N5084 |                | 60                           | 10                 | 100-300@2/2   | 1@10/2   | 1.3@5/5  | 1 <sup>1</sup> @120                        | 20  | 2.7@13   | 80                   | .35@5/5   | .65@5/5  |
| 2N5085 |                | 80                           | 10                 | 40-120@2/2  | 1@10/2   | 1.3@5/5  | 1 <sup>1</sup> @150                        | 20  | 2.7@13   | 50                   | .35@5/5   | .65@5/5  |
| 2N5284 |                | 100                          | 5.0                | 30-90@2.5/5   | 1.5@5/5  | 1.45@2.5/.25   | 1 <sup>1</sup> @120                        | 33  | 1.8@32   | 60                   |   |  |
| 2N5285 |                | 100                          | 5.0                | 70-200@2.5/5  | 1.5@5/5  | 1.45@2.5/.25   | 1 <sup>1</sup> @120                        | 33  | 1.8@32   | 70                   |   |  |
| 2N5346 |                | 80                           | 7.0                | 30-120@2/2  | 1.2@7/7  | 1.2@2/2  | .01*@80                                    | 34  | 6@10   | 30                   | .2@2/2  | 2.2@2/2  |
| 2N5347 |                | 80                           | 7.0                | 60-240@2/2  | 1.2@7/7  | 1.2@2/2  | .01*@80                                    | 34  | 6@10   | 30                   | .2@2/2  | 2.2@2/2  |
| 2N5348 |                | 100                          | 7.0                | 30-120@2/2  | 1.2@7/7  | 1.2@2/2  | .01*@100                                   | 34  | 6@10   | 30                   | .2@2/2  | 2.2@2/2  |
| 2N5349 |                | 100                          | 7.0                | 60-240@2/2  | 1.2@7/7  | 1.2@2/2  | .01*@100                                   | 34  | 6@10   | 30                   | .2@2/2  | 2.2@2/2  |
| 2N5730 |                | 80                           | 10                 | 30-300@2/2  | 1.2@5/5  | 1.5@5/5  | 1 <sup>1</sup> @100                        | 30  | 6@10   | 30                   | .2@2/2  | 3.5@2/2  |
| 2N5074 |                | 200                          | 3.0                | 30-100@.5/5   | 2@3/3  | 2.2@3/3  | .25@200                                    | 40  | .78@90   | 40                   |   |  |
| 2N5075 |                | 200                          | 3.0                | 90-250@.5/5   | 2@3/3  | 2.2@3/3  | .25@250                                    | 40  | .78@90   | 40                   |   |  |
| 2N5076 |                | 250                          | 3.0                | 30-100@.5/5   | 2@3/3  | 2.2@3/3  | .25@250                                    | 40  | .78@90   | 40                   |   |  |
| 2N5077 |                | 250                          | 3.0                | 90-250@.5/5   | 2@3/3  | 2.2@3/3  | .25@250                                    | 40  | .78@90   | 40                   |   |  |



## Datasheet Directory

NPN TO-61

I<sub>C</sub>(MAX)5.0 to 20A

V<sub>CE(SUS)</sub> = 40 to 300V

f<sub>r</sub> = 1.0 to 40 MHz

| Type#   | PNP Complement | V <sub>CE(SUS)</sub> (Volts) | I <sub>C</sub> Max | hFE @I <sub>C</sub> /V <sub>CE</sub> (Min-Max @A/V) | V <sub>CE(SAT)</sub> @I <sub>C</sub> /I <sub>B</sub> (V@A/A) | V <sub>BE</sub> @I <sub>C</sub> /V <sub>CE</sub> (V@A/V) | I <sub>CEV</sub> @V <sub>CE</sub> (mA @ V) | P <sub>D</sub> @ T <sub>C</sub> =25°C (Watts) | I <sub>S</sub> /I <sub>B</sub> @V <sub>CE</sub> T=1sec (A@V) | f <sub>r</sub> (MHz) | t <sub>ON</sub> @I <sub>C</sub> /I <sub>B</sub> (s@A/A) | t <sub>OFF</sub> @I <sub>C</sub> /I <sub>B</sub> (s@A/A) |
|---------|----------------|------------------------------|--------------------|---|--|--|--|---|--|----------------------|---|--|
| 2N1724  |                | 80                           | 5.0                | 20-90@2/15  | 1@2/2  | 2@2/2  | 10 <sup>1</sup> @120                       | 50  | 1.25@40  | 10                   |   |  |
| 2N1724A |                | 120                          | 5.0                | 30-90@2/15  | .6@2/2   | 1.2@2/2  | 10 <sup>1</sup> @180                       | 50  | 1.25@40  | 10                   |   |  |
| 2N1725  |                | 80                           | 5.0                | 50-150@2 1/2 15                                     | 1@2/2  | 2@2/2  | 10 <sup>1</sup> @120                       | 50  | 1.25@40  | 10                   |   |  |
| 2N2811  |                | 50                           | 10                 | 20-60@5/5   | .5@5/5   | 1.2@5/5  | .01@80                                     | 40  |  | 15                   |   |  |
| 2N2812  |                | 50                           | 10                 | 40-120@5/5  | .5@5/5   | 1.2@5/5  | .01@80                                     | 40  |  | 15                   |   |  |
| 2N2813  |                | 70                           | 10                 | 20-60@5/5   | .5@5/5   | 1.2@5/5  | .01@120                                    | 40  |  | 15                   |   |  |
| 2N2814  |                | 70                           | 10                 | 40-120@5/5  | .5@5/5   | 1.2@5/5  | .01@120                                    | 40  |  | 15                   |   |  |
| 2N3487  |                | 60                           | 7.5                | 20-60@3/5   | 1.2@3/3  | 1.5@3/5  | .1@80                                      | 67  | 7.5@15.6   | 10                   | .35@5/5   | 2.35@5/5   |
| 2N3488  |                | 80                           | 7.5                | 20-60@3/5   | 1.2@3/3  | 1.5@3/5  | .1@100                                     | 67  | 7.5@15.6   | 10                   | .35@5/5   | 2.35@5/5   |
| 2N3489  |                | 100                          | 7.5                | 15-45@3/5   | 1.2@3/3  | 1.5@3/5  | .1@120                                     | 67  | 3.5@5/5  | 5                    | 2.35@5/5  |  |
| 2N3490  |                | 60                           | 7.5                | 40-120@5/5  | 1.5@5/5  | 1.4@5/5  | .1@80                                      | 67  | 7.5@15.6   | 10                   | .35@5/5   | 2.35@5/5   |
| 2N3491  |                | 80                           | 7.5                | 40-120@5/5  | 1.5@5/5  | 1.4@5/5  | .1@100                                     | 67  | 7.5@15.6   | 10                   | .35@5/5   | 2.35@5/5   |
| 2N3492  |                | 100                          | 7.5                | 30-90@5/5   | 1.5@5/5  | 1.4@5/5  | .1@120                                     | 67  | 7.5@15.6   | 10                   | .35@5/5   | 2.35@5/5   |

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