

# POWER TRANSISTORS

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TO-82

| TYPE NO.   | PT @ 25°C<br>Watts | MAXIMUM RATINGS   |                   |                   |                | h <sub>FE</sub> |     | @ |   | Sat Voltages |   | Test Conditions |      | I <sub>EB0</sub> ** |
|------------|--------------------|-------------------|-------------------|-------------------|----------------|-----------------|-----|---|---|--------------|---|-----------------|------|---------------------|
|            |                    | BV <sub>CEO</sub> | BV <sub>CE0</sub> | BV <sub>EB0</sub> | I <sub>C</sub> |                 |     |   |   |              |   |                 |      |                     |
|            |                    | V                 | V                 | V                 | A              | MIN             | MAX | A | V | V            | V | A               | A    |                     |
| 2N1015     | 150                | 30                | 30                | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015A    | 150                | 60                | 60                | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015B    | 150                | 100               | 100               | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015C    | 150                | 150               | 150               | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015D    | 150                | 200               | 200               | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015E    | 150                | 250               | 250               | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1015F    | 150                | 300               | 300               | 25                | 7.5            | 10              |     | 2 | 4 | 1.5          | 2 | 2               | .3   | 20                  |
| 2N1016     | 150                | 30                | 30                | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016A    | 150                | 60                | 60                | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016B    | 150                | 100               | 100               | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| JAN2N1016B | 150                | 100               | 100               | 25                | 7.5            | 10              | 35  | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016C    | 150                | 150               | 150               | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| JAN2N1016C | 150                | 150               | 150               | 25                | 7.5            | 10              | 35  | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016D    | 150                | 200               | 200               | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| JAN2N1016D | 150                | 200               | 200               | 25                | 7.5            | 10              | 35  | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016E    | 150                | 250               | 250               | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |
| 2N1016F    | 150                | 300               | 300               | 25                | 7.5            | 10              |     | 5 | 4 | 2.5          | 4 | 5               | .750 | 20                  |

| TYPE NO. | PT @ 75°C<br>Watts | MAXIMUM RATINGS   |                   |                   |                | h <sub>FE</sub> |     | @  |   | Sat Voltages |     | Test Conditions |   | I <sub>EB0</sub> ** |
|----------|--------------------|-------------------|-------------------|-------------------|----------------|-----------------|-----|----|---|--------------|-----|-----------------|---|---------------------|
|          |                    | BV <sub>CEO</sub> | BV <sub>CE0</sub> | BV <sub>EB0</sub> | I <sub>C</sub> |                 |     |    |   |              |     |                 |   |                     |
|          |                    | V                 | V                 | V                 | A              | MIN             | MAX | A  | V | V            | V   | A               | A |                     |
| 2N2739   | 200*               | 50                | 50                | 15                | 20             | 10              |     | 10 | 4 | 1.5          | 2.5 | 10              | 2 | 25                  |
| 2N2740   | 200*               | 100               | 100               | 15                | 20             | 10              |     | 10 | 4 | 1.5          | 2.5 | 10              | 2 | 25                  |
| 2N2741   | 200*               | 150               | 150               | 15                | 20             | 10              |     | 10 | 4 | 1.5          | 2.5 | 10              | 2 | 25                  |
| 2N2742   | 200*               | 200               | 200               | 15                | 20             | 10              |     | 10 | 4 | 1.5          | 2.5 | 10              | 2 | 25                  |
| 2N2745   | 200*               | 50                | 50                | 15                | 20             | 10              |     | 15 | 4 | 1.5          | 2.5 | 15              | 3 | 25                  |
| 2N2746   | 200*               | 100               | 100               | 15                | 20             | 10              |     | 15 | 4 | 1.5          | 2.5 | 15              | 3 | 25                  |
| 2N2747   | 200*               | 150               | 150               | 15                | 20             | 10              |     | 15 | 4 | 1.5          | 2.5 | 15              | 3 | 25                  |
| 2N2748   | 200*               | 200               | 200               | 15                | 20             | 10              |     | 15 | 4 | 1.5          | 2.5 | 15              | 3 | 25                  |
| 2N2751†  | 200*               | 50                | 50                | 15                | 20             | 10              |     | 20 | 4 | 1.5          | 2.5 | 20              | 4 | 25                  |
| 2N2752†  | 200*               | 100               | 100               | 15                | 20             | 10              |     | 20 | 4 | 1.5          | 2.5 | 20              | 4 | 25                  |
| 2N2753†  | 200*               | 150               | 150               | 15                | 20             | 10              |     | 20 | 4 | 1.5          | 2.5 | 20              | 4 | 25                  |

\*T<sub>C</sub> = 75°C

\*\*T<sub>A</sub> = 150°C

†TO-82 pkg. with 60 MIL DIA. PINS.

## Solid Power Corporation

0043592 0000428 770

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Technical drawing of a 1/2 inch diameter nut. The drawing shows a side view and a top view. The side view indicates a total height of .875 MAX. and a thread section with a diameter of .38 and a pitch of .043 (1/2 LEADS). The top view shows a hexagonal shape with a width of .420 and .440, a distance between opposite flats of .205 and .225, and a distance between opposite corners of .177 and .191. The top view also shows a central hole with a diameter of .151 and .16 (2 HOLES) and a fillet radius of .525 MAX. R. The bottom view shows a fillet radius of .168 MAX. R.

Technical drawing of a 6-32 UNC 2A THD screw. The drawing shows a side view and a top view. The side view includes dimensions for the head (195/215), the body (1525/1500), and the thread (6-32 UNC 2A THD). The head height is 440/460, and the body diameter is 400/420. The thread length is 278/315, and the thread diameter is 380/410. The top view shows a circular head with a diameter of 200 T.P. and a central hole with a diameter of 100 T.P. The thread diameter is 220/230, and the thread length is 078 T.P. The drawing also includes a dimension of .030 MAX. for the head thickness and .016/.019 for the thread pitch.

Technical drawing of a 3-lead resistor. The side view shows a cylindrical body with three leads. Dimensions include: body diameter 270/330, lead diameter 360/440, body length 115 MAX., lead length 550/650, and lead diameter 444/524. The end view shows a circular face with two leads at 90° angles. Dimensions include: lead diameter 136/146, body diameter 272/292, and lead diameter 136/146. The drawing is labeled "027/033 (3 LEADS)".

Technical drawing of the 6X4 vacuum tube, showing side and end views with dimensions.

**Side View Dimensions:**

- Overall length: 360 MAX.
- Distance from base to first pin: 210.
- Distance from base to second pin: 180.
- Distance from base to third pin: 710.
- Distance from base to fourth pin: 610.
- Distance from base to fifth pin: 312 MAX.
- Distance from base to sixth pin: 1230 DIA. MAX.
- Distance from base to seventh pin: 1008 DIA. MAX.
- Distance from base to eighth pin: 500.
- Distance from base to ninth pin: 375.

**End View Dimensions:**

- Base diameter: .140 DIA. MAX.
- Emitter diameter: .348 R BASIC.
- Pin diameter: .137 / .125.

**Other Labels:**

- NO. 10-32 UNF-2A (Pin thread specification)
- BASE (Base of the tube)
- EMITTER (Emitter of the tube)

Technical drawing of a 24-pin D-sub connector. The drawing includes a side view (left) and a top view (right). The side view shows a cylindrical connector with a threaded section on the left. Dimensions include a total length of 9.37 inches (10.30 inches maximum), a threaded section length of 0.50 inches (0.43 inches maximum), and a flange thickness of 0.105 inches. The top view shows a hexagonal shape with a 90-degree angle and dimensions of 0.485 inches (0.515 inches maximum) and 0.743 inches (0.775 inches maximum). A note indicates 24 UNF-2A TH'D pins.

Technical drawing of a 24 UNF-2A threaded terminal. The drawing includes a side view, a top view, and a terminal detail. Dimensions are given in inches.

**Side View Dimensions:**

- Overall height: 1.240
- Height to top of terminal: 1.280
- Height to top of terminal (MAX.): 1.125
- Height to top of terminal: .110
- Height to top of terminal: .140
- Height to top of terminal: .035
- Height to top of terminal: .060
- Height to top of terminal: .550
- Height to top of terminal: .380
- Height to top of terminal: 1.050
- Height to top of terminal: 1.140

**Top View Dimensions:**

- Overall diameter: .140
- Overall diameter: .170
- Overall diameter: .180
- Overall diameter: .200
- Overall diameter: .480
- Overall diameter: .320
- Overall diameter: .140
- Overall diameter: .170

**Terminal Detail Dimensions:**

- Overall diameter: .050
- Overall diameter: .060
- Overall diameter: .090
- Overall diameter: .110

**Other Dimensions:**

- .130
- .190
- .014
- .024
- .045
- .060 D
- .100
- .140
- .278 D
- .312 D
- 5/16-24 UNF-2A THREAD
- .107 MAX.
- .360
- .400
- .810
- .850
- .730
- .770