

# POWER TRANSISTORS



TO-82

| TYPE NO.   | PT @ 25°C<br>Watts | MAXIMUM RATINGS   |                   |                   |                | hFE |     | @              |                 |                 |                 | Sat Voltages   |                | Test Conditions |   | I <sub>EBO</sub> **<br>ma |
|------------|--------------------|-------------------|-------------------|-------------------|----------------|-----|-----|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|---|---------------------------|
|            |                    | BV <sub>CEO</sub> | BV <sub>CE0</sub> | BV <sub>EB0</sub> | I <sub>C</sub> | MIN | MAX | I <sub>C</sub> | V <sub>CE</sub> | V <sub>CE</sub> | V <sub>BE</sub> | I <sub>C</sub> | I <sub>B</sub> |                 |   |                           |
|            |                    | V                 | V                 | V                 | A              |     |     |                |                 |                 |                 |                |                | A               | V |                           |
| 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   |                   |                   |                | hFE |     | @              |                 |                 |                 | Sat Voltages   |                | Test Conditions |   | I <sub>EBO</sub> **<br>ma |
|----------|--------------------|-------------------|-------------------|-------------------|----------------|-----|-----|----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|---|---------------------------|
|          |                    | BV <sub>CEO</sub> | BV <sub>CE0</sub> | BV <sub>EB0</sub> | I <sub>C</sub> | MIN | MAX | I <sub>C</sub> | V <sub>CE</sub> | V <sub>CE</sub> | V <sub>BE</sub> | I <sub>C</sub> | I <sub>B</sub> |                 |   |                           |
|          |                    | V                 | V                 | V                 | A              |     |     |                |                 |                 |                 |                |                | A               | V |                           |
| 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