

# Transistors

## • Darlington Power Transistors

| $I_C$ (DC) [A] | $V_{CE0}$ [V] | Package | 1.5 | 2.0              | 3.0 | 5.0                         | 7.0 | 10                                      | 15                                     | 25                 |
|----------------|---------------|---------|-----|------------------|-----|-----------------------------|-----|-----------------------------------------|----------------------------------------|--------------------|
| 60             | TO-126        |         |     | NTD985<br>NTB794 |     |                             |     |                                         |                                        |                    |
| 80             | TO-126        |         |     | NTD986<br>NTB795 |     |                             |     | NTD411<br>(TO-3)                        |                                        |                    |
| 100            | TO-220AB      |         |     |                  |     | NTD560<br>NTB601            |     | NTD1210<br>(MP-80)<br>NTB897<br>(MP-80) | 2SD1296<br>(MP-80)<br>NTD412<br>(TO-3) | 2SD1297<br>(MP-80) |
| 400            | TO-220AB      |         |     |                  |     | NTD987<br>NTD1162<br>(300V) |     | NTD565<br>(TO-3)<br>2SD1298<br>(MP-80)  |                                        |                    |

## • Power Transistors

| $I_C$ (DC) [A] | $V_{CE0}$ [V] | Package            | 1.5 | 2.0                | 3.0                                  | 5.0                  | 7.0                | 10                 | 15      |
|----------------|---------------|--------------------|-----|--------------------|--------------------------------------|----------------------|--------------------|--------------------|---------|
| 30~45          | TO-126        |                    |     |                    | 2SB772<br>2SD882<br>2SB744<br>2SD794 |                      |                    |                    |         |
|                | TO-220AB      |                    |     |                    |                                      |                      |                    | NTA1129<br>NTC2654 |         |
| 60             | TO-126        |                    |     |                    | 2SB744A<br>2SD794A                   |                      |                    |                    |         |
|                | TO-220AB      |                    |     |                    |                                      | NTA1069<br>NTC2516   | NTB707<br>NTD568   | NTD1070<br>(MP-80) |         |
| 80             | TO-220AB      |                    |     |                    | 2SB703<br>2SD743                     | NTA1069A<br>NTC2516A | NTB708<br>NTD569   |                    |         |
| 100~150        | TO-220AB      |                    |     | NTA1008<br>NTC2331 |                                      | NTC2517              | NTA1010<br>NTC2334 |                    |         |
|                | MP-80         |                    |     |                    |                                      |                      |                    |                    | NTC2750 |
|                | TO-220AB      | 2SA1006<br>2SC2336 |     |                    |                                      |                      |                    |                    |         |
| 400            | TO-220AB      |                    |     | NTC2333            |                                      |                      | NTC2335            |                    |         |
|                | MP-80         |                    |     |                    |                                      |                      |                    | NTC2749            | NTC2751 |

## • Small-Signal Transistors

| $I_C$ (DC) [mA] | $V_{CE0}$ [V] | Package                            | 100 | 200            | 300              | 500              | 700~1000         |
|-----------------|---------------|------------------------------------|-----|----------------|------------------|------------------|------------------|
| 25              | TO-92         |                                    |     |                |                  |                  | 2SC2001, 2SA952  |
| 30              | TO-92         |                                    |     |                | *2SC1280A        |                  |                  |
| 40              | TO-92         |                                    |     |                |                  | 2SC2720, 2SA1153 |                  |
|                 | TO-18         |                                    |     | 2SC943, 2SA603 |                  |                  |                  |
| 50              | TO-92         | 2SC945, 2SA733<br>2SC2718, 2SA1151 |     |                |                  |                  |                  |
|                 | SP-8          |                                    |     |                |                  |                  | 2SD571, 2SB605   |
| 60              | TO-92         |                                    |     |                | 2SC2003, 2SA954  |                  |                  |
|                 | SP-8          |                                    |     |                |                  |                  | 2SC2721, 2SA1154 |
| 80              | TO-92         |                                    |     |                | 2SC2719, 2SA1152 |                  |                  |
|                 | SP-8          |                                    |     |                |                  |                  | 2SD1312, 2SB984  |

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## • Mini-Mold Transistors for Hybrid ICs

| Type No. | $I_C$ [mA] | $V_{CE0}$ [V] | $P_d$ [mW] |
|----------|------------|---------------|------------|
| 2SA811A  | -50        | -120          | 200        |
| 2SA812   | -100       | -50           | 150        |
| 2SB624   | -700       | -25           | 200        |
| 2SB736   | -300       | -60           | 200        |
| 2SC1622A | 50         | 120           | 200        |
| 2SC1623  | 100        | 50            | 150        |
| 2SC1654  | 50         | 160           | 150        |
| 2SD596   | 700        | 25            | 200        |
| 2SD780   | 300        | 60            | 200        |

## • Power Mini-Mold Transistors for Hybrid ICs

| NPN No. | $V_{CE0}$ [V] | $I_C$ [A] | $P_T$ [W] | $h_{FE}$ [—] | PNP No. |
|---------|---------------|-----------|-----------|--------------|---------|
| 2SD1000 | 50            | 0.7       | 2.0       | 90~400       | 2SB799  |
| 2SD1006 | 100           | 0.7       | 2.0       | 90~400       | 2SB805  |
| 2SD1007 | 120           | 0.7       | 2.0       | 90~400       | 2SB806  |
| 2SD999  | 25            | 1.0       | 2.0       | 90~400       | 2SB798  |
| 2SD1005 | 80            | 1.0       | 2.0       | 90~400       | 2SB804  |
| 2SD1001 | 50            | 0.3       | 2.0       | 90~400       | 2SB800  |