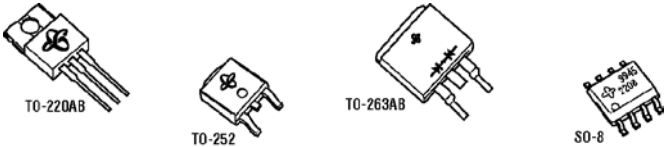


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GENFET™ Power MOSFETs



N-Channel MOSFETs

| Mfr.'s Type |        |          |         | Config. | Power (W) | Current (A) | Volt (V) | RDS (on) (Ω)  |
|-------------|--------|----------|---------|---------|-----------|-------------|----------|---------------|
| TO-220      | TO-252 | TO-263   | S0-8    |         |           |             |          |               |
| —           | —      | —        | GF2208  | Single  | 2.5       | 13.0        | 30       | 0.0080        |
| —           | —      | —        | GF2524  | Dual    | 2.0       | 5.8/7.8     | 30       | 0.0370/0.0180 |
| —           | —      | —        | GF2918  | Dual    | 2.0       | 7.8         | 30       | 0.0180        |
| —           | —      | —        | GF4410  | Single  | 2.5       | 10.0        | 30       | 0.0135        |
| —           | —      | —        | GF4412  | Single  | 2.5       | 7.0         | 30       | 0.0280        |
| —           | —      | —        | GF4420  | Single  | 2.5       | 12.5        | 30       | 0.0090        |
| —           | —      | —        | GF4435* | Single  | 2.5       | 8.0         | 30       | 0.0200        |
| —           | —      | —        | GF4450  | Single  | 2.5       | 7.5         | 60       | 0.0240        |
| —           | —      | —        | GF4936  | Dual    | 2.0       | 5.8         | 30       | 0.0370        |
| —           | —      | —        | GF9410  | Single  | 2.5       | 7.0         | 30       | 0.0300        |
| —           | —      | —        | GF9926  | Dual    | 2.0       | 6.0         | 20       | 0.0300        |
| GFP50N03    | —      | GFBS0N03 | —       | Single  | 62.5      | 50.0        | 30       | 0.0130        |
| GFP70N03    | —      | GFBS0N03 | —       | Single  | 62.5      | 70.0        | 30       | 0.0080        |
| GFP75N03    | —      | GFBS0N03 | —       | Single  | 62.5      | 70.0        | 30       | 0.0065        |
| —           | —      | —        | —       | Single  | 38.0      | 40.0        | 30       | 0.0150        |
| —           | —      | —        | —       | Single  | 50.0      | 58.0        | 30       | 0.0090        |

\* P-Channel

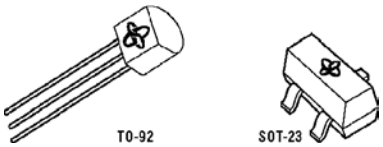
Small Signal Schottky Diodes



| Mfr.'s Type |               |          |         |         |                               | Reverse Voltage V <sub>Rev</sub> (V) | Forward Voltage @ Forward Current V <sub>r max</sub> @ I <sub>f</sub> |    |
|-------------|---------------|----------|---------|---------|-------------------------------|--------------------------------------|-----------------------------------------------------------------------|----|
| Leaded      | Surface Mount |          |         |         |                               |                                      | mV                                                                    | mA |
| DO-35       | SOD-80C       | SOD-323  | SOD-123 | SOT-23* | SOT-23†                       |                                      |                                                                       |    |
| —           | —             | BAT17WS  | BAT17W  | BAT17   | BAT17DS                       | 10                                   | 600                                                                   | 10 |
| SD103C      | LL103C        | SD103CWS | SD103CW | —       | —                             | 20                                   | 370                                                                   | 20 |
| BAT85       | BAS85         | BAT54WS  | BAT54W  | BAT54   | BAT54A•<br>BAT54C•<br>BAT54S• | 30                                   | 400                                                                   | 10 |
| —           | —             | —        | —       | —       | —                             | 30                                   | 400                                                                   | 10 |
| BAT42       | LL42          | —        | BAT42W  | —       | —                             | 30                                   | 400                                                                   | 10 |
| BAT43       | LL43          | —        | BAT43W  | —       | —                             | 30                                   | 330                                                                   | 2  |
| BAT48       | LL48          | —        | —       | —       | —                             | 30                                   | 400                                                                   | 10 |
| SD103B      | LL103B        | SD103BWS | SD103BW | —       | —                             | 30                                   | 370                                                                   | 20 |
| —           | —             | SD106WS  | —       | —       | —                             | 30                                   | 260                                                                   | 2  |
| —           | —             | SD107WS  | —       | —       | —                             | 30                                   | 300                                                                   | 2  |
| SD101C      | LL101C        | SD101CWS | SD101CW | —       | —                             | 40                                   | 390                                                                   | 1  |
| —           | —             | —        | —       | BAS40   | BAS40-04                      | 40                                   | 380                                                                   | 1  |
| —           | —             | —        | —       | —       | BAS40-05                      | 40                                   | 380                                                                   | 1  |
| —           | —             | —        | —       | —       | BAS40-06                      | 40                                   | 380                                                                   | 1  |
| SD103A      | LL103A        | SD103AWS | SD103AW | —       | —                             | 40                                   | 370                                                                   | 20 |
| SD101B      | LL101B        | SD101BWS | SD101BW | —       | —                             | 50                                   | 400                                                                   | 1  |
| BAT86       | BAS86         | —        | —       | —       | —                             | 50                                   | 380                                                                   | 1  |
| SD101A      | LL101A        | SD101AWS | SD101AW | —       | —                             | 60                                   | 410                                                                   | 1  |
| 1N5711      | LL5711        | —        | —       | BAS70   | BAS70-04                      | 70                                   | 410                                                                   | 1  |
| —           | —             | —        | —       | —       | BAS70-05                      | 70                                   | 410                                                                   | 1  |
| BAT46       | LL46          | —        | BAT46W  | —       | BAS70-06                      | 70                                   | 410                                                                   | 1  |
| —           | —             | —        | —       | —       | —                             | 100                                  | 450                                                                   | 10 |

\*Single. †Dual. •Dual SOT-23: A — 06, common anode; C — 05, common cathode; S — 04, series.

Small Signal DMOS Transistors



| Mfr.'s Type |           |           |           | V <sub>DS</sub><br>(V) | I <sub>D</sub><br>(mA) | R <sub>DS(ON)</sub><br>(Ω) | @V <sub>GS</sub> /<br>I <sub>D</sub> |
|-------------|-----------|-----------|-----------|------------------------|------------------------|----------------------------|--------------------------------------|
| TO-92*      |           | SOT-23†   |           |                        |                        |                            |                                      |
| N-Channel   | P-Channel | N-Channel | P-Channel |                        |                        |                            |                                      |
| —           | —         | 2N7002    | —         | 60                     | 250                    | 7.5                        | 10 V/500 mA                          |
| —           | BS250     | BS870     | BS850     | 60                     | 250                    | 5.0                        | 10 V/200 mA                          |
| 2N7000      | —         | —         | —         | 60                     | 300                    | 5.0                        | 10 V/500 mA                          |
| BS170       | —         | —         | —         | 60                     | 300                    | 5.0                        | 10 V/200 mA                          |

\*Leaded. †Surface mount.

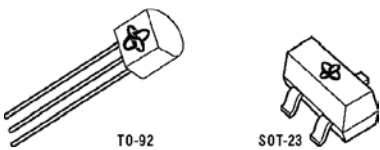
Small Signal Switching Diodes



| Mfr.'s Type |               |          |          |          |         |          | Reverse Voltage VBR (V) | Forward Current IF Max. (mA) | Forward Voltage @ Forward Current VF max @ IF |     |
|-------------|---------------|----------|----------|----------|---------|----------|-------------------------|------------------------------|-----------------------------------------------|-----|
| Leaded      | Surface Mount |          |          |          |         |          |                         |                              | mV                                            | mA  |
| DO-35*      | SOD-80C       | SOD-323• | SOD-123† | SOT-23◊  | SOT-23§ | SOT-23Δ  |                         |                              |                                               |     |
| BAW75       | —             | —        | —        | —        | —       | —        | 35                      | 150                          | 1.00                                          | 30  |
| 1N4150      | LL4150‡       | —        | 1N4150W  | —        | —       | —        | 50                      | 200                          | 1.00                                          | 200 |
| —           | BAV100†       | —        | —        | —        | —       | —        | 50                      | 200                          | 1.15                                          | 200 |
| —           | —             | —        | —        | BAL99    | —       | BAV99    | 60                      | 200                          | 1.00                                          | 100 |
| —           | —             | —        | —        | —        | —       | BAV70    | 70                      | 250                          | 1.00                                          | 50  |
| —           | —             | —        | —        | —        | —       | BAW56    | 70                      | 250                          | 1.00                                          | 50  |
| —           | —             | —        | —        | MMBD6050 | —       | —        | 70                      | 200                          | 1.10                                          | 100 |
| 1N4151      | LL4151‡       | —        | 1N4151W  | —        | —       | —        | 75                      | 150                          | 1.00                                          | 50  |
| —           | —             | BAS16WS  | BAS16D   | BAS16    | —       | —        | 75                      | 250                          | 1.00                                          | 50  |
| BAW76       | —             | —        | —        | —        | —       | —        | 75                      | 150                          | 1.00                                          | 100 |
| 1N914       | —             | —        | —        | MMBD914  | —       | —        | 100                     | 75/200                       | 1.00                                          | 10  |
| 1N4148      | LL4148‡       | 1N4148WS | 1N4148W  | IMBD4148 | —       | —        | 100                     | 150                          | 1.00                                          | 10  |
| 1N4448      | LL4448‡       | —        | 1N4448W  | IMBD4448 | —       | —        | 100                     | 150                          | 1.00                                          | 100 |
| —           | —             | —        | —        | —        | —       | MMBD7000 | 100                     | 200                          | 1.10                                          | 100 |
| BAV19       | BAV101†       | BAV19WS  | BAV19W   | —        | —       | —        | 100                     | 200                          | 1.00                                          | 100 |
| BAV20       | BAV102†       | BAV20WS  | BAV20W   | —        | BAS19   | —        | 150                     | 200                          | 1.00                                          | 100 |
| BAV21       | BAV103†       | BAV21WS  | BAV21W   | —        | BAS20   | —        | 200                     | 200                          | 1.00                                          | 100 |
| —           | —             | —        | GSD200SW | —        | BAS21   | —        | 300                     | 200                          | 1.00                                          | 100 |
| —           | —             | —        | —        | —        | —       | GSD2004S | 300                     | 200                          | 1.00                                          | 100 |

\*500 mW. †400 mW. ‡500 mW. •200 mW. ◊Single, 250 mW. §Single, 350 mW. ΔDual, 350 mW.

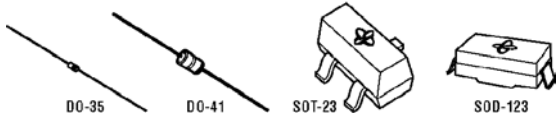
Small Signal Bipolar Transistors



| Mfr.'s Type |          |           |           | V <sub>CE</sub> (V) | I <sub>C</sub> (mA) | h <sub>FE</sub> |      |      | @V <sub>CE</sub> /I <sub>C</sub> |
|-------------|----------|-----------|-----------|---------------------|---------------------|-----------------|------|------|----------------------------------|
| TO-92*      |          | SOT-23†   |           |                     |                     | Min.            | Typ. | Max. |                                  |
| NPN         | PNP      | NPN       | PNP       |                     |                     |                 |      |      |                                  |
| 2N3904      | 2N3906   | MMBT3904  | MMBT3906  | 40                  | 200                 | 100             | —    | 300  | 1 V/10 mA                        |
| 2N4401      | 2N4403   | MMBT4401  | MMBT4403  | 40                  | 600                 | —               | 100  | 300  | 1 V/150 mA                       |
| MPS2222A    | MPS2907A | MMBT2222A | MMBT2907A | 40                  | 600                 | —               | 100  | 300  | 10 V/150 mA                      |
| BC547A      | BC557A   | BC847A    | BC857A    | 45                  | 100                 | —               | 220  | —    | 5 V/2 mA                         |
| BC547B      | BC557B   | BC847B    | BC857B    | 45                  | 100                 | —               | 330  | —    | 5 V/2 mA                         |
| BC547C      | BC557C   | BC847C    | BC857C    | 45                  | 100                 | —               | 600  | —    | 5 V/2 mA                         |
|             |          | BC817-16  | BC807-16  | 45                  | 500                 | 100             | —    | 250  | 1 V/100 mA                       |
|             |          | BC817-25  | BC807-25  | 45                  | 500                 | 160             | —    | 400  | 1 V/100 mA                       |
|             |          | BC817-40  | BC807-40  | 45                  | 500                 | 250             | —    | 600  | 1 V/100 mA                       |
| BC337-16    | BC327-16 | —         | —         | 45                  | 800                 | 100             | 160  | 250  | 1 V/300 mA                       |
| BC337-25    | BC327-25 | —         | —         | 45                  | 800                 | 160             | 250  | 400  | 1 V/300 mA                       |
| BC337-40    | BC327-40 | —         | —         | 45                  | 800                 | 250             | 400  | 630  | 1 V/300 mA                       |
|             |          | BCW66G    | BCW68G    | 45                  | 800                 | 160             | —    | 400  | 1 V/100 mA                       |
| MPSA06      | MPSA56   | MMBTA06   | MMBTA56   | 80                  | 500                 | —               | 100  | —    | 1 V/100 mA                       |

\*Leaded. †Surface mount.

Zener Diodes



| Mfr.'s Type |         |           |           | P <sub>max</sub> (mW) | Zener Voltage Range | Zener Voltage Tolerance |
|-------------|---------|-----------|-----------|-----------------------|---------------------|-------------------------|
| DO-35       | DO-41   | SOT-23    | SOD-123   |                       |                     |                         |
| 1N5226B     | 1N4728A | —         | —         | 500                   | 3.3                 | 5%                      |
| 1N5230B     | 1N4732A | —         | —         | 500                   | 4.7                 | 5%                      |
| 1N5231B     | 1N4733A | —         | —         | 500                   | 5.1                 | 5%                      |
| 1N5232B     | 1N4734A | —         | —         | 500                   | 5.6                 | 5%                      |
| 1N5240B     | 1N4740A | —         | —         | 500                   | 10.0                | 5%                      |
| 1N5245B     | 1N4744A | —         | —         | 500                   | 15.0                | 5%                      |
| —           | —       | MMBZ5226B | MMSZ5226B | 300                   | 3.3                 | 5%                      |
| —           | —       | MMBZ5230B | MMSZ5230B | 300                   | 4.7                 | 5%                      |
| —           | —       | MMBZ5232B | MMSZ5232B | 300                   | 5.6                 | 5%                      |
| —           | —       | MMBZ5235B | MMSZ5235B | 300                   | 6.8                 | 5%                      |
| —           | —       | MMBZ5236B | MMSZ5236B | 300                   | 7.5                 | 5%                      |
| —           | —       | MMBZ5237B | MMSZ5237B | 300                   | 8.2                 | 5%                      |
| —           | —       | MMBZ5239B | MMSZ5239B | 300                   | 9.1                 | 5%                      |
| —           | —       | MMBZ5240B | MMSZ5240B | 300                   | 10.0                | 5%                      |
| —           | —       | MMBZ5242B | MMSZ5242B | 300                   | 12.0                | 5%                      |
| —           | —       | MMBZ5248B | MMSZ5248B | 300                   | 18.0                | 5%                      |
| —           | —       | MMBZ5250B | MMSZ5250B | 300                   | 20.0                | 5%                      |
| —           | —       | MMBZ5254B | MMSZ5254B | 300                   | 27.0                | 5%                      |
| —           | —       | MMBZ5257B | MMSZ5257B | 300                   | 33.0                | 5%                      |