



semitronics hot line

discrete  
devices

TOLL FREE NUMBER 800-777-3960

## silicon zener diodes

**NOTES:** The following notes explain variations in the standard type numbers listed for Silicon Zener Diodes. "Note" numbers are inserted above type numbers in the "Type" column. A note number then pertains to all types which follow it, up to that point where another note number is inserted and takes effect for subsequent types.

1. Standard tolerances of 5.0% and 10% are available — no suffix is  $\pm 10\%$  tolerance; suffix "A" denotes  $\pm 5\%$  tolerance.
2. Standard tolerance of  $\pm 5\%$ .
3. Standard tolerance of  $\pm 20\%$ .
4. Standard tolerances of 5.0%, 10%, and 20% are available — no suffix is 20% tolerance; suffix "A" denotes  $\pm 10\%$  tolerance; suffix "B" is  $\pm 5\%$  tolerance.
5. Reverse polarity types available; add suffix "R."
6. Standard tolerances of 1.0%, 5.0% and 10% are available — no suffix is

- $\pm 10\%$ ; suffix "A" denotes  $\pm 5\%$  tolerance; suffix "B" is  $\pm 1\%$ .
7. Standard tolerance of  $\pm 15\%$ .
8. Impedance is derived from the 60 cycle AC voltage which results when an AC current having an RMS value equal to 10% of the DC Zener current is superimposed upon the DC current.
9. Standard tolerance of  $\pm 10\%$ .
10. Standard types are  $\pm 10\%$  tolerance; suffix "A" denotes  $\pm 5\%$  tolerance; suffix "C" denotes  $\pm 10\%$  clipper; suffix "CA" denotes  $\pm 5\%$  clipper.

## silicon zener diodes cont'd

5 watt DO-27 case style

| JEDEC<br>TYPE<br>NUMBER† | NOMINAL<br>ZENER<br>VOLTAGE<br>V <sub>Z</sub><br>VOLTS | TEST<br>CURRENT<br>I <sub>ZT</sub><br>mA | MAXIMUM ZENER IMPEDANCE<br>A & B SUFFIX ONLY |                           |                       |
|--------------------------|--------------------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------|-----------------------|
|                          |                                                        |                                          | Z <sub>ZT</sub> @ I <sub>ZT</sub><br>Ohms    | Z <sub>ZK</sub> @<br>Ohms | I <sub>ZK</sub><br>mA |
| (NOTE 4)                 |                                                        |                                          |                                              |                           |                       |
| 1N5333                   | 3.3                                                    | 380                                      | 3.0                                          | 400                       | 1.0                   |
| 1N5334                   | 3.6                                                    | 350                                      | 2.5                                          | 500                       | 1.0                   |
| 1N5335                   | 3.9                                                    | 320                                      | 2.0                                          | 500                       | 1.0                   |
| 1N5336                   | 4.3                                                    | 290                                      | 2.0                                          | 500                       | 1.0                   |
| 1N5337                   | 4.7                                                    | 260                                      | 2.0                                          | 450                       | 1.0                   |
| 1N5338                   | 5.1                                                    | 240                                      | 1.5                                          | 400                       | 1.0                   |
| 1N5339                   | 5.6                                                    | 220                                      | 1.0                                          | 400                       | 1.0                   |
| 1N5340                   | 6.0                                                    | 200                                      | 1.0                                          | 300                       | 1.0                   |
| 1N5341                   | 6.2                                                    | 200                                      | 1.0                                          | 200                       | 1.0                   |
| 1N5342                   | 6.8                                                    | 175                                      | 1.0                                          | 200                       | 1.0                   |
| 1N5343                   | 7.5                                                    | 175                                      | 1.5                                          | 200                       | 1.0                   |
| 1N5344                   | 8.2                                                    | 150                                      | 1.5                                          | 200                       | 1.0                   |
| 1N5345                   | 8.7                                                    | 150                                      | 2.0                                          | 200                       | 1.0                   |
| 1N5346                   | 9.1                                                    | 150                                      | 2.0                                          | 150                       | 1.0                   |
| 1N5347                   | 10                                                     | 125                                      | 2.0                                          | 125                       | 1.0                   |
| 1N5348                   | 11                                                     | 125                                      | 2.5                                          | 125                       | 1.0                   |
| 1N5349                   | 12                                                     | 100                                      | 2.5                                          | 125                       | 1.0                   |
| 1N5350                   | 13                                                     | 100                                      | 2.5                                          | 100                       | 1.0                   |
| 1N5351                   | 14                                                     | 100                                      | 2.5                                          | 75                        | 1.0                   |
| 1N5352                   | 15                                                     | 75                                       | 2.5                                          | 75                        | 1.0                   |
| 1N5353                   | 16                                                     | 75                                       | 2.5                                          | 75                        | 1.0                   |
| 1N5354                   | 17                                                     | 70                                       | 2.5                                          | 75                        | 1.0                   |
| 1N5355                   | 18                                                     | 65                                       | 2.5                                          | 75                        | 1.0                   |
| 1N5356                   | 19                                                     | 65                                       | 3.0                                          | 75                        | 1.0                   |
| 1N5357                   | 20                                                     | 65                                       | 3.0                                          | 75                        | 1.0                   |
| 1N5358                   | 22                                                     | 50                                       | 3.5                                          | 75                        | 1.0                   |
| 1N5359                   | 24                                                     | 50                                       | 3.5                                          | 100                       | 1.0                   |
| 1N5360                   | 25                                                     | 50                                       | 4.0                                          | 110                       | 1.0                   |

| JEDEC<br>TYPE<br>NUMBER† | NOMINAL<br>ZENER<br>VOLTAGE<br>V <sub>Z</sub><br>VOLTS | TEST<br>CURRENT<br>I <sub>ZT</sub><br>mA | MAXIMUM ZENER IMPEDANCE<br>A & B SUFFIX ONLY |                   |                 |
|--------------------------|--------------------------------------------------------|------------------------------------------|----------------------------------------------|-------------------|-----------------|
|                          |                                                        |                                          | Z <sub>zT</sub> @ I <sub>ZT</sub>            | Z <sub>zK</sub> @ | I <sub>zK</sub> |
|                          |                                                        |                                          | Ohms                                         | Ohms              | mA              |
| (NOTE 4)                 |                                                        |                                          |                                              |                   |                 |
| 1N5361                   | 27                                                     | 50                                       | 5.0                                          | 120               | 1.0             |
| 1N5362                   | 28                                                     | 50                                       | 6.0                                          | 130               | 1.0             |
| 1N5363                   | 30                                                     | 40                                       | 25.0                                         | 140               | 1.0             |
| 1N5364                   | 33                                                     | 40                                       | 27.0                                         | 150               | 1.0             |
| 1N5365                   | 36                                                     | 30                                       | 35.0                                         | 160               | 1.0             |
| 1N5366                   | 39                                                     | 30                                       | 40.0                                         | 170               | 1.0             |
| 1N5367                   | 43                                                     | 30                                       | 42.0                                         | 190               | 1.0             |
| 1N5368                   | 47                                                     | 25                                       | 25.0                                         | 210               | 1.0             |
| 1N5369                   | 51                                                     | 25                                       | 27.0                                         | 230               | 1.0             |
| 1N5370                   | 56                                                     | 20                                       | 35.0                                         | 280               | 1.0             |
| 1N5371                   | 60                                                     | 20                                       | 40.0                                         | 350               | 1.0             |
| 1N5372                   | 62                                                     | 20                                       | 42.0                                         | 400               | 1.0             |
| 1N5373                   | 68                                                     | 20                                       | 44.0                                         | 500               | 1.0             |
| 1N5374                   | 75                                                     | 20                                       | 45.0                                         | 620               | 1.0             |
| 1N5375                   | 82                                                     | 15                                       | 65.0                                         | 720               | 1.0             |
| 1N5376                   | 87                                                     | 15                                       | 75.0                                         | 760               | 1.0             |
| 1N5377                   | 91                                                     | 15                                       | 75.0                                         | 760               | 1.0             |
| 1N5378                   | 100                                                    | 12                                       | 90.0                                         | 800               | 1.0             |
| 1N5379                   | 110                                                    | 12                                       | 125.0                                        | 1000              | 1.0             |
| 1N5380                   | 120                                                    | 10                                       | 170.0                                        | 1150              | 1.0             |
| 1N5381                   | 130                                                    | 10                                       | 190.0                                        | 1250              | 1.0             |
| 1N5382                   | 140                                                    | 8.0                                      | 230.0                                        | 1500              | 1.0             |
| 1N5383                   | 150                                                    | 8.0                                      | 330.0                                        | 1500              | 1.0             |
| 1N5384                   | 160                                                    | 8.0                                      | 350.0                                        | 1650              | 1.0             |
| 1N5385                   | 170                                                    | 8.0                                      | 380.0                                        | 1750              | 1.0             |
| 1N5386                   | 180                                                    | 5.0                                      | 430.0                                        | 1750              | 1.0             |
| 1N5387                   | 190                                                    | 5.0                                      | 450.0                                        | 1850              | 1.0             |
| 1N5388                   | 200                                                    | 5.0                                      | 480.0                                        | 1850              | 1.0             |

10 watt DO-4 case style

| Type         | Zener Voltage<br>V <sub>Z</sub> (volts) | Dynamic Resistance<br>R <sub>D</sub> (ohms)<br>(Note 8) | Zener Current<br>I <sub>Z</sub> (mA) | Case Style |
|--------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------|------------|
| (Notes 2, 5) |                                         |                                                         |                                      |            |
| 1N2041-1     | 4.5                                     | 1.0                                                     | 1000                                 | DO-4       |
| 1N2041-2     | 5.0                                     | 1.0                                                     | 1000                                 | DO-4       |
| 1N2042-1     | 5.5                                     | 0.7                                                     | 1000                                 | DO-4       |
| 1N2042-2     | 6.0                                     | 0.7                                                     | 1000                                 | DO-4       |
| 1N2043-1     | 6.5                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2043-2     | 7.0                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2043-3     | 7.5                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2044-1     | 8.0                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2044-2     | 8.5                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2044-3     | 9.0                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2044-4     | 9.5                                     | 0.8                                                     | 1000                                 | DO-4       |
| 1N2045-1     | 10.0                                    | 1.5                                                     | 500                                  | DO-4       |
| 1N2045-2     | 11.0                                    | 1.5                                                     | 500                                  | DO-4       |
| 1N2046-1     | 12.0                                    | 2.0                                                     | 500                                  | DO-4       |
| 1N2046-2     | 13.0                                    | 2.0                                                     | 500                                  | DO-4       |
| 1N2046-3     | 14.0                                    | 2.0                                                     | 500                                  | DO-4       |
| 1N2047-1     | 15.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2047-2     | 16.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2047-3     | 17.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2048-1     | 18.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2048-2     | 19.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2048-3     | 20.0                                    | 3.0                                                     | 500                                  | DO-4       |
| 1N2049-1     | 22.0                                    | 8.0                                                     | 150                                  | DO-4       |
| 1N2049-2     | 24.0                                    | 8.0                                                     | 150                                  | DO-4       |
| 1N2049-3     | 26.0                                    | 8.0                                                     | 150                                  | DO-4       |
| (Note 10)    |                                         |                                                         |                                      |            |
| 1N2498       | 10                                      | 2.0                                                     | 500                                  | DO-4       |
| 1N2499       | 11                                      | 2.0                                                     | 500                                  | DO-4       |
| 1N2500       | 12                                      | 2.0                                                     | 500                                  | DO-4       |

| Type         | Zener Voltage<br>V <sub>Z</sub> (volts) | Dynamic Resistance<br>R <sub>D</sub> (ohms)<br>(Note 8) | Zener Current<br>I <sub>Z</sub> (mA) | Case Style |
|--------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------|------------|
| (Notes 4, 5) |                                         |                                                         |                                      |            |
| 1N2970       | 6.8                                     | 1.2                                                     | 370                                  | DO-4       |
| 1N2971       | 7.5                                     | 1.3                                                     | 335                                  | DO-4       |
| 1N2972       | 8.2                                     | 1.5                                                     | 305                                  | DO-4       |
| 1N2973       | 9.1                                     | 2.0                                                     | 275                                  | DO-4       |
| 1N2974       | 10.0                                    | 3.0                                                     | 250                                  | DO-4       |
| 1N2975       | 11.0                                    | 3.0                                                     | 230                                  | DO-4       |
| 1N2976       | 12.0                                    | 3.0                                                     | 210                                  | DO-4       |
| 1N2977       | 13.0                                    | 3.0                                                     | 190                                  | DO-4       |
| 1N2978       | 14.0                                    | 3.0                                                     | 180                                  | DO-4       |
| 1N2979       | 15.0                                    | 3.0                                                     | 170                                  | DO-4       |
| 1N2980       | 16.0                                    | 4.0                                                     | 155                                  | DO-4       |
| 1N2981       | 17.0                                    | 4.0                                                     | 145                                  | DO-4       |
| 1N2982       | 18.0                                    | 4.0                                                     | 140                                  | DO-4       |
| 1N2983       | 19.0                                    | 4.0                                                     | 130                                  | DO-4       |
| 1N2984       | 20.0                                    | 4.0                                                     | 125                                  | DO-4       |
| 1N2985       | 22.0                                    | 5.0                                                     | 115                                  | DO-4       |
| 1N2986       | 24.0                                    | 5.0                                                     | 105                                  | DO-4       |
| 1N2987       | 25.0                                    | 6.0                                                     | 100                                  | DO-4       |
| 1N2988       | 27.0                                    | 7.0                                                     | 95                                   | DO-4       |
| 1N2989       | 30.0                                    | 8.0                                                     | 85                                   | DO-4       |
| 1N2990       | 33.0                                    | 9.0                                                     | 75                                   | DO-4       |
| 1N2991       | 36.0                                    | 10.0                                                    | 70                                   | DO-4       |
| 1N2992       | 39.0                                    | 11.0                                                    | 65                                   | DO-4       |
| 1N2993       | 43.0                                    | 12.0                                                    | 60                                   | DO-4       |
| 1N2994       | 45.0                                    | 13.0                                                    | 55                                   | DO-4       |
| 1N2995       | 47.0                                    | 14.0                                                    | 55                                   | DO-4       |
| 1N2996       | 50.0                                    | 15.0                                                    | 50                                   | DO-4       |
| 1N2997       | 51.0                                    | 15.0                                                    | 50                                   | DO-4       |

| Type         | Zener Voltage<br>V <sub>Z</sub> (volts) | Dynamic Resistance<br>R <sub>D</sub> (ohms)<br>(Note 8) | Zener Current<br>I <sub>Z</sub> (mA) | Case Style |
|--------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------|------------|
| (NOTE 4,5)   |                                         |                                                         |                                      |            |
| 1N2998       | 52.0                                    | 15.0                                                    | 50                                   | DO-4       |
| 1N2999       | 56.0                                    | 16.0                                                    | 45                                   | DO-4       |
| 1N3000       | 62.0                                    | 17.0                                                    | 40                                   | DO-4       |
| 1N3001       | 68.0                                    | 18.0                                                    | 37                                   | DO-4       |
| 1N3002       | 75.0                                    | 22.0                                                    | 33                                   | DO-4       |
| (Notes 4, 5) |                                         |                                                         |                                      |            |
| 1N3003       | 82.0                                    | 25.0                                                    | 30                                   | DO-4       |
| 1N3004       | 91.0                                    | 35.0                                                    | 28                                   | DO-4       |
| 1N3005       | 100                                     | 40.0                                                    | 25                                   | DO-4       |
| 1N3006       | 105                                     | 45.0                                                    | 25                                   | DO-4       |
| 1N3007       | 110                                     | 55.0                                                    | 23                                   | DO-4       |
| 1N3008       | 120                                     | 75.0                                                    | 20                                   | DO-4       |
| 1N3009       | 130                                     | 100                                                     | 19                                   | DO-4       |
| 1N3010       | 140                                     | 125                                                     | 18                                   | DO-4       |
| 1N3011       | 150                                     | 175                                                     | 17                                   | DO-4       |
| 1N3012       | 160                                     | 200                                                     | 16                                   | DO-4       |
| 1N3013       | 175                                     | 250                                                     | 14                                   | DO-4       |
| 1N3014       | 180                                     | 260                                                     | 14                                   | DO-4       |
| 1N3015       | 200                                     | 300                                                     | 12                                   | DO-4       |
| (Notes 1, 5) |                                         |                                                         |                                      |            |
| 1N3993       | 3.9                                     | 2.0                                                     | 640                                  | DO-4       |
| 1N3994       | 4.3                                     | 1.5                                                     | 580                                  | DO-4       |
| 1N3995       | 4.7                                     | 1.2                                                     | 530                                  | DO-4       |
| 1N3996       | 5.1                                     | 1.1                                                     | 490                                  | DO-4       |
| 1N3997       | 5.6                                     | 1.0                                                     | 445                                  | DO-4       |
| 1N3998       | 6.2                                     | 1.1                                                     | 405                                  | DO-4       |
| 1N3999       | 6.8                                     | 1.2                                                     | 370                                  | DO-4       |
| 1N4000       | 7.5                                     | 1.3                                                     | 335                                  | DO-4       |

## silicon voltage reference diodes

temperature compensated  
200 milliwatt

| Type   | Nom.<br>Zener<br>Voltage,<br>V <sub>Z</sub> (volts) | Dynamic<br>Impedance,<br>Z <sub>Z</sub> (ohms) | Zener<br>Current<br>I <sub>Z</sub> (mA) | Temp.<br>Coefficient<br>(% per °C) | Temp.<br>Range<br>(°C) | Case<br>Style |
|--------|-----------------------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|------------------------|---------------|
| 1N429  | 6.2                                                 | 20                                             | 7                                       | ± .01                              | -55/+100               | C-1           |
| 1N1735 | 6.2                                                 | 20                                             | —                                       | ± .01                              | -55/+100               | A-27h         |

250 milliwatt

|         |     |     |     |         |          |       |
|---------|-----|-----|-----|---------|----------|-------|
| 1N430   | 8.4 | 15  | 10  | ±0.002  | -55/+100 | S-20  |
| 1N430A  | 8.4 | 15  | 10  | ±0.001  | -55/+100 | S-20  |
| 1N821   | 6.2 | 15  | 7.5 | ±0.01   | -55/+100 | D0-7  |
| 1N821A  | 6.2 | 10  | 7.5 | ±0.01   | -55/+100 | D0-7  |
| 1N823   | 6.2 | 15  | 7.5 | ±0.005  | -55/+100 | D0-7  |
| 1N823A  | 6.2 | 10  | 7.5 | ±0.005  | -55/+100 | D0-7  |
| 1N824   | 6.2 | 15  | 7.5 | ±0.005  | -55/+100 | D0-7  |
| 1N825   | 6.2 | 15  | 7.5 | ±0.002  | -55/+100 | D0-7  |
| 1N825A  | 6.2 | 10  | 7.5 | ±0.002  | -55/+100 | D0-7  |
| 1N827   | 6.2 | 15  | 7.5 | ±0.001  | -55/+100 | D0-7  |
| 1N827A  | 6.2 | 10  | 7.5 | ±0.001  | -55/+100 | D0-7  |
| 1N829   | 6.2 | 15  | 7.5 | ±0.0005 | -55/+100 | D0-7  |
| 1N829A  | 6.2 | 10  | 7.5 | ±0.0005 | -55/+100 | D0-7  |
| 1N2765  | 6.8 | 20  | 7.5 | ±0.005  | -55/+100 | A-48c |
| 1N2765A | 6.8 | 20  | 7.5 | ±0.002  | -55/+100 | A-48c |
| 1N3496  | 6.2 | 15  | 7.5 | ±0.005  | 0/+75    | D0-7  |
| 1N3497  | 6.2 | 15  | 7.5 | ±0.002  | 0/+75    | D0-7  |
| 1N3498  | 6.2 | 15  | 7.5 | ±0.001  | 0/+75    | D0-7  |
| 1N3499  | 6.2 | 15  | 7.5 | ±0.0005 | 0/+75    | D0-7  |
| 1N3500  | 6.2 | 15  | 7.5 | ±0.01   | 0/+75    | D0-7  |
| 1N3553  | 6.3 | 15  | 7.5 | ±0.0001 | -55/+100 | D0-7  |
| 1N4770  | 9.1 | 200 | 1.0 | ±0.01   | 0/+75    | D0-7  |
| 1N4770A | 9.1 | 200 | 1.0 | ±0.01   | -55/+100 | D0-7  |
| 1N4771  | 9.1 | 200 | 1.0 | ±0.005  | 0/+75    | D0-7  |
| 1N4771A | 9.1 | 200 | 1.0 | ±0.005  | -55/+100 | D0-7  |
| 1N4772  | 9.1 | 200 | 1.0 | ±0.002  | 0/+75    | D0-7  |
| 1N4772A | 9.1 | 200 | 1.0 | ±0.002  | -55/+100 | D0-7  |
| 1N4773  | 9.1 | 200 | 1.0 | ±0.001  | 0/+75    | D0-7  |
| 1N4773A | 9.1 | 200 | 1.0 | ±0.001  | -55/+100 | D0-7  |
| 1N4780  | 8.5 | 100 | 1.0 | ±0.01   | 0/+75    | D0-7  |
| 1N4780A | 8.5 | 100 | 1.0 | ±0.01   | -55/+100 | D0-7  |
| 1N4781  | 8.5 | 100 | 1.0 | ±0.005  | 0/+75    | D0-7  |
| 1N4781A | 8.5 | 100 | 1.0 | ±0.005  | -55/+100 | D0-7  |
| 1N4782  | 8.5 | 100 | 1.0 | ±0.002  | 0/+75    | D0-7  |
| 1N4782A | 8.5 | 100 | 1.0 | ±0.002  | -55/+100 | D0-7  |
| 1N4783  | 8.5 | 100 | 1.0 | ±0.001  | 0/+75    | D0-7  |
| 1N4783A | 8.5 | 100 | 1.0 | ±0.001  | -55/+100 | D0-7  |

400 milliwatt

|         |      |     |      |         |          |       |
|---------|------|-----|------|---------|----------|-------|
| 1N1736  | 12.4 | 40  | 7.5  | ±0.01   | -55/+100 | A-28b |
| 1N1736A | 12.4 | 40  | 7.5  | ±0.005  | -55/+100 | A-28b |
| 1N2766  | 13.6 | 40  | 7.5  | ±0.005  | -55/+100 | A-48c |
| 1N2766A | 13.6 | 40  | 7.5  | ±0.0025 | -55/+100 | A-48c |
| 1N3154  | 8.4  | 15  | 10.0 | ±0.01   | -55/+100 | D0-7  |
| 1N3154A | 8.4  | 15  | 10.0 | ±0.01   | -55/+150 | D0-7  |
| 1N3155  | 8.4  | 15  | 10.0 | ±0.005  | -55/+100 | D0-7  |
| 1N3155A | 8.4  | 15  | 10.0 | ±0.005  | -55/+150 | D0-7  |
| 1N3156  | 8.4  | 15  | 10.0 | ±0.002  | -55/+100 | D0-7  |
| 1N3157  | 8.4  | 15  | 10.0 | ±0.001  | -55/+100 | D0-7  |
| 1N3157A | 8.4  | 15  | 10.0 | ±0.001  | -55/+150 | D0-7  |
| 1N4295  | 10   | 20  | 10   | ±0.012  | -55/+150 | A-97  |
| 1N4295A | 10   | 20  | 10   | ±0.012  | -55/+100 | A-97  |
| 1N4570  | 6.4  | 100 | 1.0  | ±0.01   | 0/+75    | D0-7  |
| 1N4570A | 6.4  | 100 | 1.0  | ±0.01   | -55/+100 | D0-7  |
| 1N4571  | 6.4  | 100 | 1.0  | ±0.005  | 0/+75    | D0-7  |
| 1N4571A | 6.4  | 100 | 1.0  | ±0.005  | -55/+100 | D0-7  |
| 1N4572  | 6.4  | 100 | 1.0  | ±0.002  | 0/+75    | D0-7  |
| 1N4572A | 6.4  | 100 | 1.0  | ±0.002  | -55/+100 | D0-7  |
| 1N4573  | 6.4  | 100 | 1.0  | ±0.001  | 0/+75    | D0-7  |
| 1N4573A | 6.4  | 100 | 1.0  | ±0.001  | -55/+100 | D0-7  |

500 milliwatt

| Type   | Nom.<br>Zener<br>Voltage,<br>V <sub>Z</sub> (volts) | Dynamic<br>Impedance,<br>Z <sub>Z</sub> (ohms) | Zener<br>Current<br>I <sub>Z</sub> (mA) | Temp.<br>Coefficient<br>(% per °C) | Temp.<br>Range<br>(°C) | Case<br>Style |
|--------|-----------------------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|------------------------|---------------|
| 1N935  | 9.0                                                 | 20                                             | 7.5                                     | ± .01                              | 0/+75                  | D0-7          |
| 1N935A | 9.0                                                 | 20                                             | 7.5                                     | ± .01                              | -55/+100               | D0-7          |
| 1N935B | 9.0                                                 | 20                                             | 7.5                                     | ± .01                              | -55/+150               | D0-7          |
| 1N936  | 9.0                                                 | 20                                             | 7.5                                     | ± .005                             | 0/+75                  | D0-7          |
| 1N936A | 9.0                                                 | 20                                             | 7.5                                     | ± .005                             | -55/+100               | D0-7          |
| 1N936B | 9.0                                                 | 20                                             | 7.5                                     | ± .005                             | -55/+150               | D0-7          |
| 1N937  | 9.0                                                 | 20                                             | 7.5                                     | ± .002                             | 0/+75                  | D0-7          |
| 1N937A | 9.0                                                 | 20                                             | 7.5                                     | ± .002                             | -55/+100               | D0-7          |
| 1N937B | 9.0                                                 | 20                                             | 7.5                                     | ± .002                             | -55/+150               | D0-7          |
| 1N938  | 9.0                                                 | 20                                             | 7.5                                     | ± .001                             | 0/+75                  | D0-7          |
| 1N938A | 9.0                                                 | 20                                             | 7.5                                     | ± .001                             | -55/+100               | D0-7          |
| 1N938B | 9.0                                                 | 20                                             | 7.5                                     | ± .001                             | -55/+150               | D0-7          |
| 1N939  | 9.0                                                 | 20                                             | 7.5                                     | ± .0005                            | 0/+75                  | D0-7          |
| 1N939A | 9.0                                                 | 20                                             | 7.5                                     | ± .0005                            | -55/+100               | D0-7          |
| 1N939B | 9.0                                                 | 20                                             | 7.5                                     | ± .0005                            | -55/+150               | D0-7          |
| 1N940  | 9.0                                                 | 20                                             | 7.5                                     | ± .0002                            | 0/+75                  | D0-7          |
| 1N940A | 9.0                                                 | 20                                             | 7.5                                     | ± .0002                            | -55/+100               | D0-7          |
| 1N940B | 9.0                                                 | 20                                             | 7.5                                     | ± .0002                            | -55/+150               | D0-7          |
| 1N941  | 11.7                                                | 30                                             | 7.5                                     | ±0.01                              | 0/+75                  | D0-7          |
| 1N941A | 11.7                                                | 30                                             | 7.5                                     | ±0.01                              | -55/+100               | D0-7          |
| 1N941B | 11.7                                                | 30                                             | 7.5                                     | ±0.01                              | -55/+150               | D0-7          |
| 1N942  | 11.7                                                | 30                                             | 7.5                                     | ±0.005                             | 0/+75                  | D0-7          |
| 1N942A | 11.7                                                | 30                                             | 7.5                                     | ±0.005                             | -55/+100               | D0-7          |
| 1N942B | 11.7                                                | 30                                             | 7.5                                     | ±0.005                             | -55/+150               | D0-7          |
| 1N943  | 11.7                                                | 30                                             | 7.5                                     | ±0.002                             | 0/+75                  | D0-7          |
| 1N943A | 11.7                                                | 30                                             | 7.5                                     | ±0.002                             | -55/+100               | D0-7          |
| 1N943B | 11.7                                                | 30                                             | 7.5                                     | ±0.002                             | -55/+150               | D0-7          |
| 1N944  | 11.7                                                | 30                                             | 7.5                                     | ±0.001                             | 0/+75                  | D0-7          |
| 1N944A | 11.7                                                | 30                                             | 7.5                                     | ±0.001                             | -55/+100               | D0-7          |
| 1N944B | 11.7                                                | 30                                             | 7.5                                     | ±0.001                             | -55/+150               | D0-7          |
| 1N945  | 11.7                                                | 30                                             | 7.5                                     | ±0.0005                            | 0/+75                  | D0-7          |
| 1N945A | 11.7                                                | 30                                             | 7.5                                     | ±0.0005                            | -55/+100               | D0-7          |
| 1N945B | 11.7                                                | 30                                             | 7.5                                     | ±0.0005                            | -55/+150               | D0-7          |
| 1N946  | 11.7                                                | 30                                             | 7.5                                     | ±0.0002                            | 0/+75                  | D0-7          |
| 1N946A | 11.7                                                | 30                                             | 7.5                                     | ±0.0002                            | -55/+100               | D0-7          |
| 1N946B | 11.7                                                | 30                                             | 7.5                                     | ±0.0002                            | -55/+150               | D0-7          |

750 milliwatt

|         |      |    |     |        |          |       |
|---------|------|----|-----|--------|----------|-------|
| 1N2163  | 9.4  | 15 | 10  | 0.005  | 0/+70    | D0-13 |
| 1N2163A | 9.4  | 15 | 10  | 0.005  | 0/+70    | D0-13 |
| 1N2164  | 9.4  | 15 | 10  | 0.005  | 55/+125  | D0-13 |
| 1N2164A | 9.4  | 15 | 10  | 0.005  | 55/+125  | D0-13 |
| 1N2165  | 9.4  | 15 | 10  | 0.005  | -55/+185 | D0-13 |
| 1N2165A | 9.4  | 15 | 10  | 0.005  | -55/+185 | D0-13 |
| 1N2166  | 9.4  | 15 | 10  | 0.001  | 0/+70    | D0-13 |
| 1N2166A | 9.4  | 15 | 10  | 0.001  | 0/+70    | D0-13 |
| 1N2167  | 9.4  | 15 | 10  | 0.001  | -55/+125 | D0-13 |
| 1N2167A | 9.4  | 15 | 10  | 0.001  | -55/+125 | D0-13 |
| 1N2168  | 9.4  | 15 | 10  | 0.001  | -55/+185 | D0-13 |
| 1N2168A | 9.4  | 15 | 10  | 0.001  | -55/+185 | D0-13 |
| 1N2169  | 9.4  | 15 | 10  | 0.005  | 0/+70    | D0-13 |
| 1N2169A | 9.4  | 15 | 10  | 0.005  | 0/+70    | D0-13 |
| 1N2170  | 9.4  | 15 | 10  | 0.005  | 55/+125  | D0-13 |
| 1N2170A | 9.4  | 15 | 10  | 0.005  | -55/+125 | D0-13 |
| 1N2171  | 9.4  | 15 | 10  | 0.005  | -55/+185 | D0-13 |
| 1N2171A | 9.4  | 15 | 10  | 0.005  | -55/+185 | D0-13 |
| 1N2620  | 9.3  | 15 | 10  | 0.01   | 0/+75    | D0-13 |
| 1N2620A | 9.3  | 15 | 10  | 0.01   | -55/+100 | D0-13 |
| 1N2620B | 9.3  | 15 | 10  | 0.01   | 55/+150  | D0-13 |
| 1N2621  | 9.3  | 15 | 10  | 0.005  | 0/+75    | D0-13 |
| 1N2621A | 9.3  | 15 | 10  | 0.005  | -55/+100 | D0-13 |
| 1N2621B | 9.3  | 15 | 10  | 0.005  | -55/+150 | D0-13 |
| 1N2622  | 9.3  | 15 | 10  | 0.002  | 0/+75    | D0-13 |
| 1N2622A | 9.3  | 15 | 10  | 0.002  | -55/+100 | D0-13 |
| 1N2622B | 9.3  | 15 | 10  | 0.002  | -55/+150 | D0-13 |
| 1N2623  | 9.3  | 15 | 10  | 0.001  | 0/+75    | D0-13 |
| 1N2623A | 9.3  | 15 | 10  | 0.001  | -55/+100 | D0-13 |
| 1N2623B | 9.3  | 15 | 10  | 0.001  | 55/+150  | D0-13 |
| 1N2624  | 9.3  | 15 | 10  | 0.0005 | 0/+75    | D0-13 |
| 1N2624A | 9.3  | 15 | 10  | 0.0005 | -55/+100 | D0-13 |
| 1N2624B | 9.3  | 15 | 10  | 0.0005 | -55/+150 | D0-13 |
| 1N3580  | 11.7 | 25 | 7.5 | 0.01   | 0/+75    | D0-13 |
| 1N3580A | 11.7 | 25 | 7.5 | 0.01   | -55/+100 | D0-13 |