

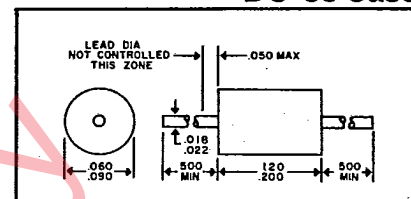
ZENER DIODES

400mW

DO-35 Case

DO-35 Case

| Type† | Nominal Zener Voltage | Test Current | Maximum‡ Dynamic Impedance | Typical Temperature Coefficient |
|-------|-----------------------|--------------|----------------------------|---------------------------------|
|       | Vz @ Izr              | Izr          | Zzr @ Izr                  | Tc                              |
|       | V                     | mA           | Ω                          | %/°C                            |
| 1N957 | 6.8                   | 18.5         | 4.5                        | .040                            |
| 1N958 | 7.5                   | 16.5         | 5.5                        | .045                            |
| 1N959 | 8.2                   | 15.0         | 6.5                        | .048                            |
| 1N960 | 9.1                   | 14.0         | 7.5                        | .051                            |
| 1N961 | 10.0                  | 12.5         | 8.5                        | .055                            |
| 1N962 | 11                    | 11.5         | 9.5                        | .060                            |
| 1N963 | 12                    | 10.5         | 11.5                       | .065                            |
| 1N964 | 13                    | 9.5          | 13.0                       | .065                            |
| 1N965 | 15                    | 8.5          | 16.0                       | .070                            |
| 1N966 | 16                    | 7.8          | 17.0                       | .070                            |
| 1N967 | 18                    | 7.0          | 21                         | .075                            |
| 1N968 | 20                    | 6.2          | 25                         | .075                            |
| 1N969 | 22                    | 5.6          | 29                         | .080                            |
| 1N970 | 24                    | 5.2          | 33                         | .080                            |
| 1N971 | 27                    | 4.6          | 41                         | .085                            |
| 1N972 | 30                    | 4.2          | 49                         | .085                            |
| 1N973 | 33                    | 3.8          | 58                         | .085                            |
| 1N974 | 36                    | 3.4          | 70                         | .092                            |
| 1N975 | 39                    | 3.2          | 80                         | .093                            |
| 1N976 | 43                    | 3.0          | 93                         | .094                            |
| 1N977 | 47                    | 2.7          | 105                        | .095                            |
| 1N978 | 51                    | 2.5          | 125                        | .095                            |
| 1N979 | 56                    | 2.2          | 150                        | .096                            |
| 1N980 | 62                    | 2.0          | 185                        | .096                            |
| 1N981 | 68                    | 1.8          | 230                        | .097                            |



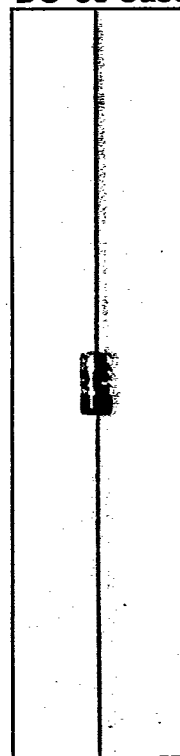
†Standard tolerance of 5, 10, and 20% are available — no suffix is ±20% tolerance, "A" suffix is ±10% tolerance, and "B" suffix is ±5.0% tolerance.  
‡Zener impedance is derived from the 1kHz voltage created when AC current with RMS value of 10% of DC zener test current is superimposed on the test current.

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| Type†     | Nominal Zener Voltage | Test Current | Maximum‡ Dynamic Impedance | Typical Temperature Coefficient |
|-----------|-----------------------|--------------|----------------------------|---------------------------------|
|           | Vz @ Izr              | Izr          | Zzr @ Izr                  | Tc                              |
|           | V                     | mA           | Ω                          | %/°C                            |
| BZY88C6V8 | 6.8                   | 5            | 3.0                        | —                               |
| BZY88C7V5 | 7.5                   |              | 3.0                        | —                               |
| BZY88C8V2 | 8.2                   |              | 3.5                        | —                               |
| BZY88C9V1 | 9.1                   |              | 4.7                        | —                               |
| BZY88C10  | 10.0                  |              | 25.0                       | —                               |
| BZY88C11  | 11                    | 5            | 35                         | —                               |
| BZY88C12  | 12                    |              | 35                         | —                               |
| BZY88C13  | 13                    |              | 35                         | —                               |
| BZY88C15  | 15                    |              | 40                         | —                               |
| BZY88C16  | 16                    |              | 45                         | —                               |
| BZY88C18  | 18                    | 5            | 50                         | —                               |
| BZY88C20  | 20                    |              | 60                         | —                               |
| BZY88C22  | 22                    |              | 65                         | —                               |
| BZY88C24  | 24                    |              | 75                         | —                               |



†Standard tolerance of ±5.0%.  
‡Zener impedance is derived from the 1kHz voltage created when AC current with RMS value of 10% of DC zener test current is superimposed on the test current.

500mW

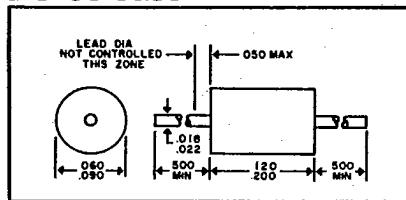
DO-35 Case

| Type†  | Nominal Zener Voltage | Test Current | Maximum‡ Dynamic Impedance | Typical Temperature Coefficient |
|--------|-----------------------|--------------|----------------------------|---------------------------------|
|        | Vz @ Izr              | Izr          | Zzr @ Izr                  | Tc                              |
|        | V                     | mA           | Ω                          | %/°C                            |
| 1N5226 | 3.3                   | 20           | 28                         | -.070                           |
| 1N5227 | 3.6                   |              | 24                         | -.065                           |
| 1N5228 | 3.9                   |              | 23                         | -.060                           |
| 1N5229 | 4.3                   |              | 22                         | ±.055                           |
| 1N5230 | 4.7                   |              | 19                         | ±.030                           |
| 1N5231 | 5.1                   | 20           | 17                         | ±.030                           |
| 1N5232 | 5.6                   |              | 11                         | ±.038                           |
| 1N5233 | 6.0                   |              | 7                          | .038                            |
| 1N5234 | 6.2                   |              | 7                          | .045                            |
| 1N5235 | 6.8                   | 20           | 5                          | .050                            |
| 1N5236 | 7.5                   |              | 6                          | .058                            |
| 1N5237 | 8.2                   |              | 8                          | .062                            |
| 1N5238 | 8.7                   |              | 8                          | .065                            |
| 1N5239 | 9.1                   |              | 10                         | .068                            |



**ZENER DIODES**

**DO-35 Case**



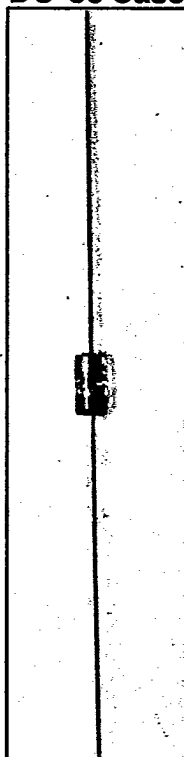
**500mW**

**DO-35 Case**

| Type†  | Nominal Zener Voltage | Test Current | Maximum‡ Dynamic Impedance | Typical Temperature Coefficient |
|--------|-----------------------|--------------|----------------------------|---------------------------------|
|        | Vz @ Izt              |              |                            |                                 |
|        | V                     | Izt<br>mA    | Zzt @ Izt<br>Ω             | Tc<br>%/°C                      |
| 1N5240 | 10                    | 20.0         | 17                         | .075                            |
| 1N5241 | 11                    | 20.0         | 22                         | .076                            |
| 1N5242 | 12                    | 20.0         | 30                         | .077                            |
| 1N5243 | 13                    | 9.5          | 13                         | .079                            |
| 1N5244 | 14                    | 9.0          | 15                         | .082                            |
| 1N5245 | 15                    | 8.5          | 16                         | .082                            |
| 1N5246 | 16                    | 7.8          | 17                         | .083                            |
| 1N5247 | 17                    | 7.4          | 19                         | .084                            |
| 1N5248 | 18                    | 7.0          | 21                         | .085                            |
| 1N5249 | 19                    | 6.6          | 23                         | .086                            |
| 1N5250 | 20                    | 6.2          | 25                         | .086                            |
| 1N5251 | 22                    | 5.6          | 29                         | .087                            |
| 1N5252 | 24                    | 5.2          | 33                         | .088                            |
| 1N5253 | 25                    | 5.0          | 35                         | .089                            |
| 1N5254 | 27                    | 4.6          | 41                         | .090                            |
| 1N5255 | 28                    | 4.5          | 44                         | .091                            |
| 1N5256 | 30                    | 4.2          | 49                         | .091                            |
| 1N5257 | 33                    | 3.8          | 58                         | .092                            |
| 1N5258 | 36                    | 3.4          | 70                         | .093                            |
| 1N5259 | 39                    | 3.2          | 80                         | .094                            |
| 1N5260 | 43                    | 3.0          | 93                         | .095                            |
| 1N5261 | 47                    | 2.7          | 105                        | .095                            |
| 1N5262 | 51                    | 2.5          | 125                        | .096                            |
| 1N5263 | 56                    | 2.2          | 150                        | .096                            |
| 1N5264 | 60                    | 2.1          | 170                        | .097                            |
| 1N5265 | 62                    | 2.0          | 185                        | .097                            |
| 1N5266 | 68                    | 1.8          | 230                        | .097                            |

†Standard tolerance of ±10%. "A" suffix is ±10% tolerance and "B" suffix is ±5% tolerance.  
‡Zener impedance is derived from the 1kHz voltage created when AC current with RMS value of 10% of DC zener test current is superimposed on the test current.

**DO-35 Case**



**500mW**

**DO-35 Case**

| Type†  | Nominal Zener Voltage | "A"‡ Suffix | "B"‡ Suffix | "C"‡ Suffix | "D"‡ Suffix | Test‡ Current | Maximum Temperature Junction |
|--------|-----------------------|-------------|-------------|-------------|-------------|---------------|------------------------------|
|        |                       | Zzt @ Izt   | Zzt @ Izt   | Zzt @ Izt   | Zzt @ Izt   |               |                              |
|        | Vz @ Izt              | Zzt @ Izt   | Zzt @ Izt   | Zzt @ Izt   | Zzt @ Izt   | Izt           | °C                           |
|        | V                     | Ω           | Ω           | Ω           | Ω           | mA            |                              |
| 1N5988 | 3.3                   | 100         | 100         | 100         | 100         | 5             | 200J                         |
| 1N5989 | 3.6                   | 95          | 95          | 95          | 95          |               |                              |
| 1N5990 | 3.9                   | 95          | 90          | 90          | 90          |               |                              |
| 1N5991 | 4.3                   | 90          | 88          | 88          | 88          |               |                              |
| 1N5992 | 4.7                   | 90          | 70          | 70          | 70          | 5             | 200J                         |
| 1N5993 | 5.1                   | 88          | 50          | 50          | 50          |               |                              |
| 1N5994 | 5.6                   | 70          | 25          | 25          | 25          |               |                              |
| 1N5995 | 6.2                   | 50          | 10          | 10          | 10          |               |                              |
| 1N5996 | 6.8                   | 25          | 8           | 8           | 8           | 5             | 200J                         |
| 1N5997 | 7.5                   | 10          | 7           | 7           | 7           |               |                              |
| 1N5998 | 8.2                   | 15          | 7           | 7           | 7           |               |                              |
| 1N5999 | 9.1                   | 18          | 10          | 10          | 10          |               |                              |
| 1N6000 | 10                    | 22          | 15          | 15          | 15          | 5             | 200J                         |
| 1N6001 | 11                    | 25          | 18          | 18          | 18          |               |                              |
| 1N6002 | 12                    | 32          | 22          | 22          | 22          |               |                              |
| 1N6003 | 13                    | 36          | 25          | 25          | 25          |               |                              |
| 1N6004 | 14                    | 42          | 32          | 32          | 32          | 5             | 200J                         |
| 1N6005 | 16                    | 48          | 36          | 36          | 36          |               |                              |
| 1N6006 | 18                    | 55          | 42          | 42          | 42          |               |                              |
| 1N6007 | 20                    | 62          | 48          | 48          | 48          |               |                              |
| 1N6008 | 22                    | 70          | 55          | 55          | 55          | 5             | 200J                         |
| 1N6009 | 24                    | 78          | 62          | 62          | 62          |               |                              |
| 1N6010 | 27                    | 88          | 70          | 70          | 70          |               |                              |
| 1N6011 | 30                    | 95          | 78          | 78          | 78          |               |                              |
| 1N6012 | 33                    | 110         | 88          | 88          | 88          | 5             | 200J                         |
| 1N6013 | 36                    | 130         | 95          | 95          | 95          |               |                              |
| 1N6014 | 39                    | 170         | 130         | 130         | 130         |               |                              |
| 1N6015 | 43                    | 180         | 150         | 150         | 150         |               |                              |
| 1N6016 | 47                    | 200         | 170         | 170         | 170         | 5             | 200J                         |
| 1N6017 | 51                    | 225         | 180         | 180         | 180         |               |                              |
| 1N6018 | 56                    | 240         | 200         | 200         | 200         |               |                              |
| 1N6019 | 62                    | 265         | 225         | 225         | 225         |               |                              |
| 1N6020 | 68                    | 280         | 240         | 240         | 240         |               |                              |

† Standard types are ±20% tolerance, suffix "A" denotes ±10%, suffix "B" denotes ±5%, suffix "C" denotes ±2%, suffix "D" denotes ±1%.  
‡ Zener Impedance is derived from the 1kHz voltage created when AC current with RMS value of ±10% of DC zener test current is superimposed on the test current.