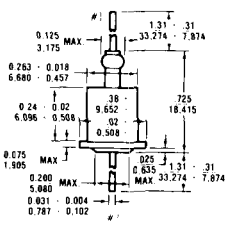
| Zener Type No. | Zener Voltage at $I_{ZT}$ Volts | @ mA | Max. Zener Impedance @ $I_{ZT}$ Ohms | Zener Voltage Tolerance | Power Rating | Device Package | MICROSEMI Recommended Substitute |
|---|---|---|---|---|---|---|---|
| **1N1363** | 33.0 | 150.0 | 4.0 | No Suffix = 10% | 10 watt | DO-4 | |
| **1N1364** | 36.0 | 150.0 | 5.0 | Suffix A = 5% | " | " | |
| **1N1365** | 39.0 | 150.0 | 5.0 | Suffix R = Rev. Polarity | " | " | |
| **1N1366** | 43.0 | 150.0 | 6.0 | " " | " | " | |
| **1N1367** | 47.0 | 150.0 | 7.0 | " " | " | " | |
| **1N1368** | 51.0 | 150.0 | 8.0 | " " | " | " | |
| **1N1369** | 56.0 | 150.0 | 9.0 | " " | " | " | |
| **1N1370** | 62.0 | 50.0 | 12.0 | " " | " | " | |
| **1N1371** | 68.0 | 50.0 | 14.0 | " " | " | " | |
| **1N1372** | 75.0 | 50.0 | 20.0 | " " | " | " | |
| **1N1373** | 82.0 | 50.0 | 22.0 | " " | " | " | |
| **1N1374** | 91.0 | 50.0 | 35.0 | " " | " | " | |
| **1N1375** | 100.0 | 50.0 | 40.0 | " " | " | " | |
| 1N1416 | 8.2 | 200.0 | 3.0 | 5% | 10 watt | — | 1N2972 |
| 1N1417 | 12.0 | 200.0 | 3.5 | " | " | — | 1N2976 |
| 1N1418 | 15.0 | 100.0 | 4.0 | " | " | — | 1N2979 |
| 1N1419 | 18.0 | 100.0 | 5.0 | " | " | — | 1N2982 |
| 1N1420 | 22.0 | 100.0 | 5.0 | " | " | — | 1N2985 |
| 1N1421 | 27.0 | 50.0 | 8.0 | " | " | — | 1N2988 |
| 1N1422 | 68.0 | 20.0 | 15.0 | 5% | 10 watt | — | 1N3001 |
| 1N1423 | 100.0 | 20.0 | 30.0 | " | " | — | 1N3005 |
| 1N1424 | 150.0 | 10.0 | 105.0 | " | " | — | 1N3011 |
| 1N1425 | 8.2 | 20.0 | 5.0 | 5% | 1 watt | — | 1N3018 |
| 1N1426 | 12.0 | 20.0 | 7.0 | " | " | — | 1N3022 |
| 1N1427 | 15.0 | 10.0 | 17.0 | " | " | — | 1N3024 |
| 1N1428 | 18.0 | 10.0 | 20.0 | " | " | — | 1N3026 |
| 1N1429 | 22.0 | 10.0 | 23.0 | " | " | — | 1N3028 |
| 1N1430 | 27.0 | 5.0 | 50.0 | " | " | — | 1N3030 |
| 1N1431 | 68.0 | 2.0 | 150.0 | " | " | — | 1N3040 |
| 1N1432 | 100.0 | 2.0 | 350.0 | " | " | — | 1N3044 |
| 1N1433 | 150.0 | 1.0 | 1200.0 | " | " | — | 1N3048 |
| 1N1482 | 4.7 | 200.0 | 3.0 | 5% | 10 watt | — | 1N3995 |
| 1N1483 | 6.2 | 200.0 | 2.0 | " | " | — | 1N3998 |
| 1N1484 | 4.7 | 50.0 | 5.0 | 5% | 1 watt | — | 1N3825 |
| 1N1485 | 6.2 | 20.0 | 5.0 | " | " | — | 1N3828 |
| 1N1507 | 3.9 | 35.0 | 15.0 | No Suffix = 10% | 750mw | DO-12[9] | 1N3823 |
| 1N1508 | 4.7 | 30.0 | 13.0 | Suffix A = 5% | " | " | 1N3825 |
| 1N1509 | 5.6 | 26.0 | 11.0 | " " | " | " | 1N3827 |
| 1N1510 | 6.8 | 22.0 | 3.0 | " " | " | " | 1N3016 |
| 1N1511 | 8.2 | 18.0 | 3.0 | " " | " | " | 1N3018 |
| 1N1512 | 10.0 | 15.0 | 3.2 | " " | " | " | 1N3020 |
| 1N1513 | 12.0 | 12.0 | 6.5 | " " | " | " | 1N3022 |
| 1N1514 | 15.0 | 10.0 | 10.5 | " " | " | " | 1N3024 |
| 1N1515 | 18.0 | 8.0 | 16.0 | " " | " | " | 1N3026 |
| 1N1516 | 22.0 | 6.0 | 40.0 | " " | " | " | 1N3028 |
| 1N1517 | 27.0 | 5.0 | 82.0 | " " | " | " | 1N3030 |
| 1N1518 | 3.9 | 50.0 | 10.0 | No Suffix = 10% | 1 watt | DO-3[9] | 1N3823 |
| 1N1519 | 4.7 | 40.0 | 13.0 | Suffix A = 5% | " | " | 1N3825 |
| 1N1520 | 5.6 | 35.0 | 10.2 | " " | " | " | 1N3827 |
| 1N1521 | 6.8 | 30.0 | 4.2 | " " | " | " | 1N3016 |
| 1N1522 | 8.2 | 25.0 | 3.0 | " " | " | " | 1N3018 |
| 1N1523 | 10.0 | 20.0 | 4.0 | " " | " | " | 1N3020 |
| 1N1524 | 12.0 | 15.0 | 6.0 | " " | " | " | 1N3022 |
| 1N1525 | 15.0 | 13.0 | 13.0 | " " | " | " | 1N3024 |
| 1N1526 | 18.0 | 10.0 | 25.0 | " " | " | " | 1N3026 |
| 1N1527 | 22.0 | 9.0 | 32.0 | " " | " | " | 1N3028 |
| 1N1528 | 27.0 | 7.0 | 45.0 | " " | " | " | 1N3030 |
| 1N1530[2] | 8.4±5% | 10.0 | 15.0 | T.C. = .002%/°C[4] | 250mw | Case Q | 1N3156[27] |
| 1N1530A[2] | 8.4±5% | 10.0 | 15.0 | T.C. = .001%/°C[4] | " | " | 1N3157[27] |
| **1N1588** | 3.9 | 150.0 | 4.5 | No Suffix = 10% | 3.5 watt | DO-4 | |
| **1N1589** | 4.7 | 125.0 | 4.0 | Suffix A = 5% | " | " | |
| **1N1590** | 5.6 | 110.0 | 3.0 | " " | " | " | |
| **1N1591** | 6.8 | 100.0 | 0.9 | " " | " | " | |
| **1N1592** | 8.2 | 80.0 | 1.5 | " " | " | " | |
| **1N1593** | 10.0 | 70.0 | 2.5 | " " | " | " | |
| **1N1594** | 12.0 | 50.0 | 3.0 | " " | " | " | |
| **1N1595** | 15.0 | 40.0 | 5.5 | " " | " | " | |
| **1N1596** | 18.0 | 35.0 | 9.0 | " " | " | " | |
| **1N1597** | 22.0 | 30.0 | 14.0 | " " | " | " | |
| **1N1598** | 27.0 | 25.0 | 24.0 | " " | " | " | |

NOTE — Diode types presently available from Microsemi Corporation are shown in bold type.

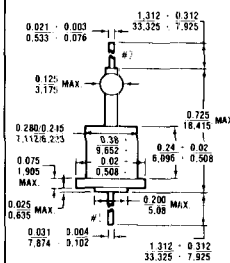
(2) Temperature compensated zener diode
(4) Temperature range −55°C to +100°C
(9) Supplied by Microsemi in DO-13 Case
(27) Supplied by Microsemi in DO-7 package.

# CASE CONFIGURATION CHART

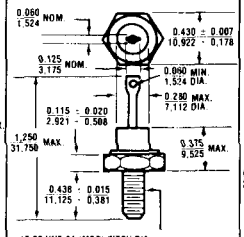
## DO-1



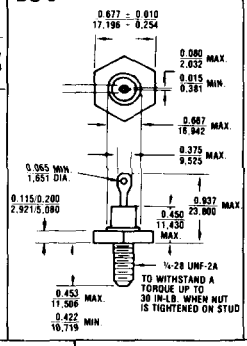

## DO-3



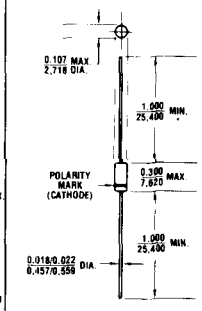

## DO-4



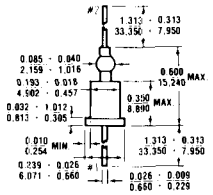

## DO-5



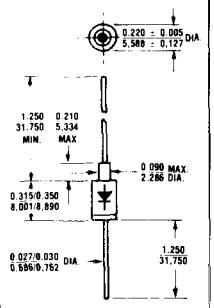

## DO-7



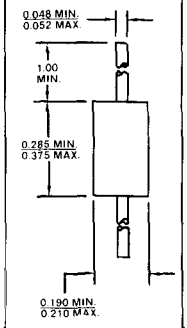

## DO-12



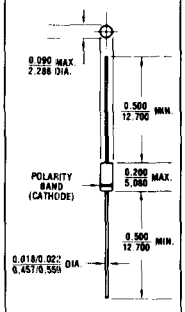

## DO-13



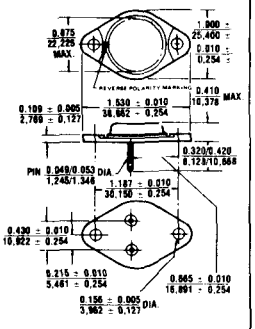

## DO-27



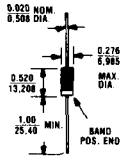

## DO-35



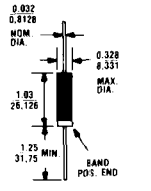

## TO-3



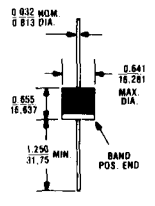

## Case 1



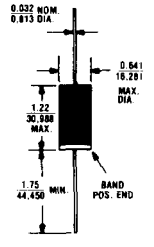

## Case 2



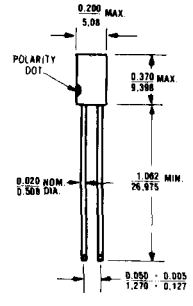

## Case 3



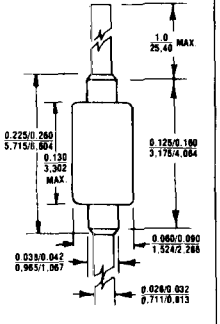

## Case 4



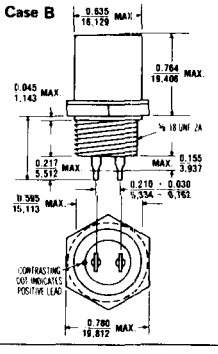

## Case A



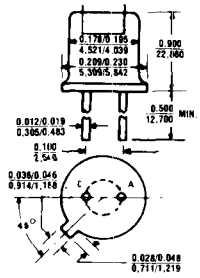

## A196d



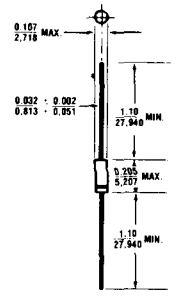

## Case B



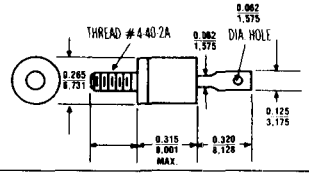

## C29N



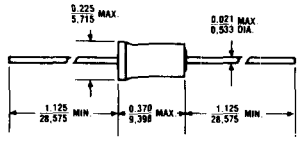

## Case J (DO-41)




## Case K



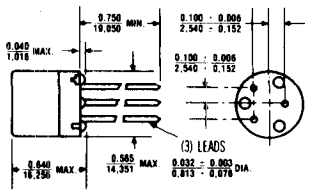

## Case L



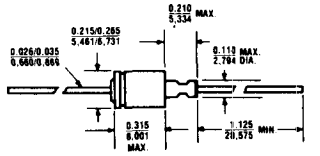

All dimensions in INCH / m.m.

# CASE CONFIGURATION CHART

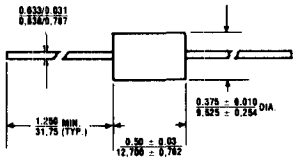
## Case Q



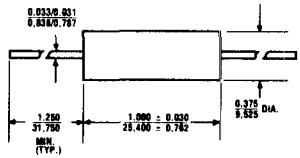

## Case R



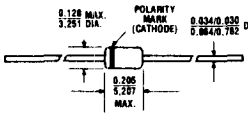

## Case S



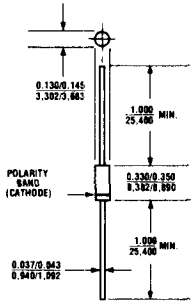

## Case T



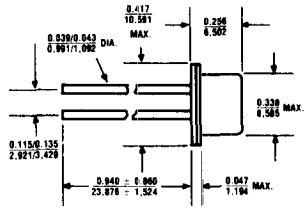

## Case X



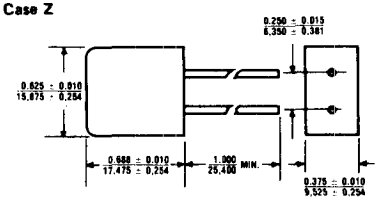

## T-18



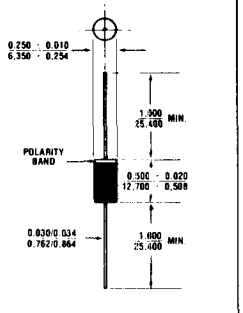

## Case AA



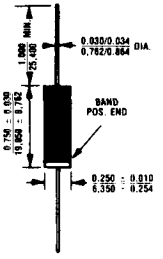

## Case Z



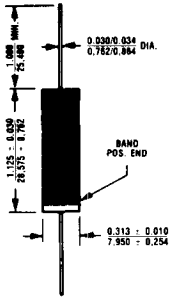

## Case CC



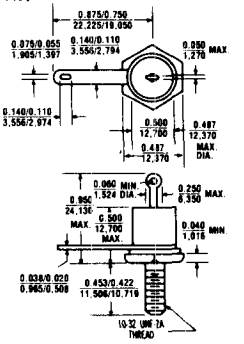

## Case DD



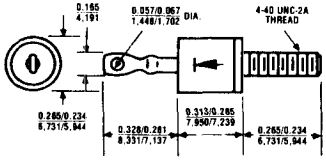

## Case EE



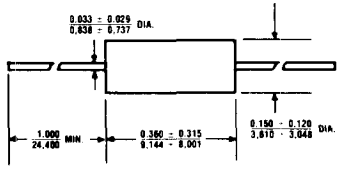

## Case HH




## Case FF



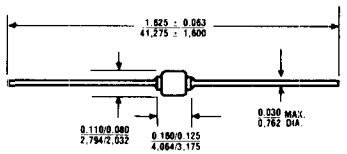

## Case GG



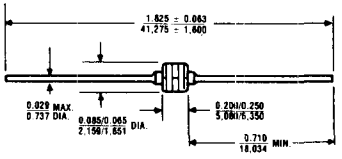

All dimensions in INCH / m.m.

# CASE CONFIGURATION CHART

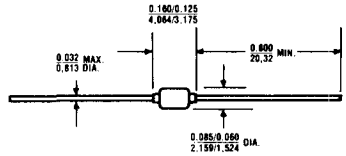
**Case JJ**



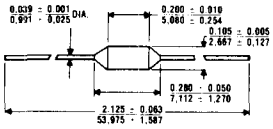

**Case LL**



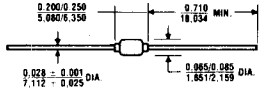

**Case MM**



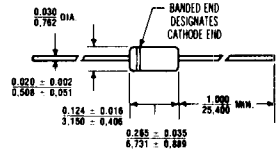

**Case NN**



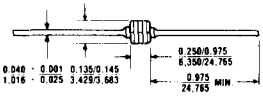

**Case OO**



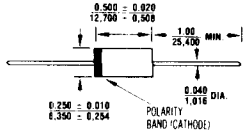

**Case QQ**



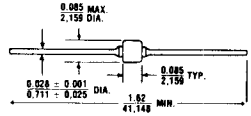

**Case RR**



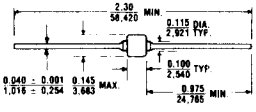

**Case SS**




**Case UU**




**Case VV**



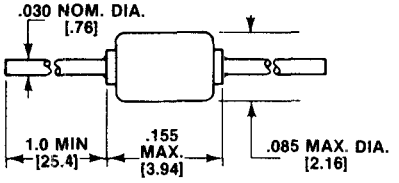

All dimensions in INCH / m.m.

# CASE CONFIGURATION CHART

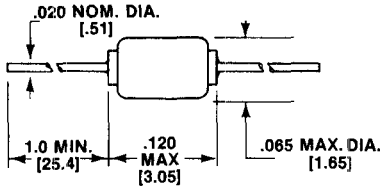
## MECHANICAL CONFIGURATIONS PHYSICAL DIMENSIONS

DIMENSIONS IN INCHES (MM)

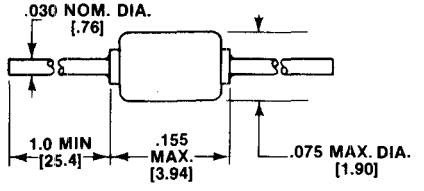
PACKAGE A



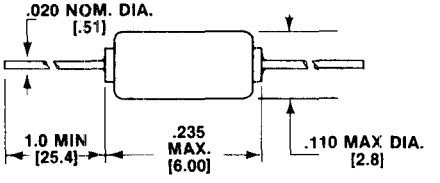

PACKAGE B [D034]



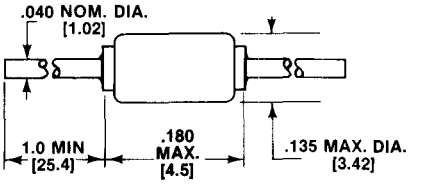

PACKAGE C



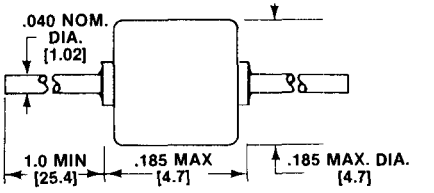

PACKAGE D



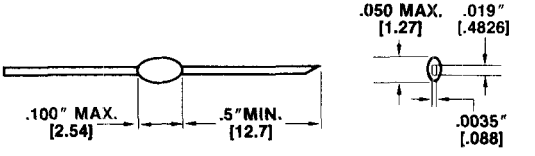

PACKAGE E



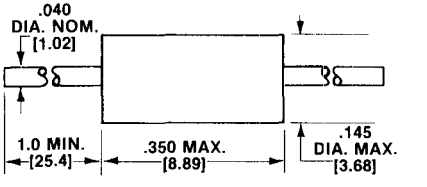

PACKAGE G




PACKAGE H




PACKAGE R




PACKAGE S