

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4099 thru 1N4135

250mW ZENER DIODE
5% TOLERANCE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4099 Series types are high quality Silicon Zener Diodes designed for low leakage, low current and low noise applications.

MAXIMUM RATINGS (T_A = 25°C)

| | SYMBOL | UNIT |
|---|-----------------------------------|------------------|
| Power Dissipation | P _D | 250 mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | - 65 TO + 200 °C |
| Tolerance (No Suffix) | | ± 5 % |
| Tolerance "C Suffix" | | ± 2 % |
| Tolerance "D Suffix" | | ± 1 % |

ELECTRICAL CHARACTERISTICS (T_A = 25°C)

| TYPE NO. | Zener Voltage | Test Current | Max. Zener Impedance | Max. Reverse Leakage Current | | Max. DC Current | Max. Noise Density |
|----------|----------------------------------|-----------------|-----------------------------------|---------------------------------|------|-----------------|--------------------|
| | V _Z @ I _{ZT} | I _{ZT} | Z _{zT} @ I _{ZT} | I _R @ V _R | | I _{ZM} | N _D |
| | V | μA | Ω | μA | V | mA | μV/√Hz |
| 1N4099 | 6.8 | 250 | 200 | 10 | 5.2 | 35.0 | 40 |
| 1N4100 | 7.5 | 250 | 200 | 10 | 5.7 | 31.8 | 40 |
| 1N4101 | 8.2 | 250 | 200 | 1.0 | 6.3 | 29.0 | 40 |
| 1N4102 | 8.7 | 250 | 200 | 1.0 | 6.7 | 27.4 | 40 |
| 1N4103 | 9.1 | 250 | 200 | 1.0 | 7.0 | 26.2 | 40 |
| 1N4104 | 10 | 250 | 200 | 1.0 | 7.6 | 24.8 | 40 |
| 1N4105 | 11 | 250 | 200 | 0.05 | 8.5 | 21.6 | 40 |
| 1N4106 | 12 | 250 | 200 | 0.05 | 9.2 | 20.4 | 40 |
| 1N4107 | 13 | 250 | 200 | 0.05 | 9.9 | 19.0 | 40 |
| 1N4108 | 14 | 250 | 200 | 0.05 | 10.7 | 17.5 | 40 |
| 1N4109 | 15 | 250 | 100 | 0.05 | 11.4 | 16.3 | 40 |
| 1N4110 | 16 | 250 | 100 | 0.05 | 12.2 | 15.4 | 40 |
| 1N4111 | 17 | 250 | 100 | 0.05 | 13.0 | 14.5 | 40 |
| 1N4112 | 18 | 250 | 100 | 0.05 | 13.7 | 13.2 | 40 |
| 1N4113 | 19 | 250 | 150 | 0.05 | 14.5 | 12.5 | 40 |
| 1N4114 | 20 | 250 | 150 | 0.01 | 15.2 | 11.9 | 40 |
| 1N4115 | 22 | 250 | 150 | 0.01 | 16.8 | 10.8 | 40 |
| 1N4116 | 24 | 250 | 150 | 0.01 | 18.3 | 9.9 | 40 |
| 1N4117 | 25 | 250 | 150 | 0.01 | 19.0 | 9.5 | 40 |
| 1N4118 | 27 | 250 | 150 | 0.01 | 20.5 | 8.8 | 40 |
| 1N4119 | 28 | 250 | 200 | 0.01 | 21.3 | 8.5 | 40 |
| 1N4120 | 30 | 250 | 200 | 0.01 | 22.8 | 7.9 | 40 |
| 1N4121 | 33 | 250 | 200 | 0.01 | 25.1 | 7.2 | 40 |
| 1N4122 | 36 | 250 | 200 | 0.01 | 27.4 | 6.6 | 40 |
| 1N4123 | 39 | 250 | 200 | 0.01 | 29.7 | 6.1 | 40 |
| 1N4124 | 43 | 250 | 250 | 0.01 | 32.7 | 5.5 | 40 |
| 1N4125 | 47 | 250 | 250 | 0.01 | 35.8 | 5.1 | 40 |
| 1N4126 | 51 | 250 | 300 | 0.01 | 38.8 | 4.6 | 40 |
| 1N4127 | 56 | 250 | 300 | 0.01 | 42.6 | 4.2 | 40 |
| 1N4128 | 60 | 250 | 400 | 0.01 | 45.6 | 4.0 | 40 |
| 1N4129 | 62 | 250 | 500 | 0.01 | 47.1 | 3.8 | 40 |
| 1N4130 | 68 | 250 | 700 | 0.01 | 51.7 | 3.5 | 40 |
| 1N4131 | 75 | 250 | 700 | 0.01 | 57.0 | 3.1 | 40 |
| 1N4132 | 82 | 250 | 800 | 0.01 | 62.4 | 2.9 | 40 |
| 1N4133 | 87 | 250 | 1000 | 0.01 | 66.2 | 2.7 | 40 |
| 1N4134 | 91 | 250 | 1200 | 0.01 | 69.2 | 2.6 | 40 |
| 1N4135 | 100 | 250 | 1500 | 0.01 | 76.0 | 2.3 | 40 |

±1% or ±2% Tolerance devices may be supplied in DO-35 or DO-7 case.

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