

## CZRB2110 -CZRB2350

Voltage: 110-350 Volts  
Power: 2.0 Watts

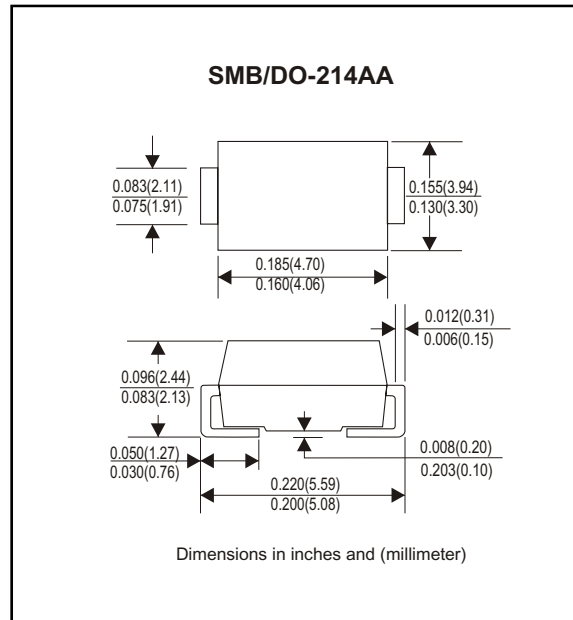


### Features

- Low profile package
- Built-in strain relief
- 5 & 10% Voltage Tolerances available
- Excellent clamping capability
- Wide voltage range
- Meets UL specification 94V-0

### Mechanical Data

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable MIL-STD-750, method 2026
- Weight: 0.003 ounce, 0.093 gram
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

| Maximum Ratings  | CZRB2110 to CZRB2350 | Units |
|--|----------------------|-------|
| DC Power Dissipation with TL = 75°C ...PD                                  | 2                    | Watt  |
| Lead Length = .375 Inches<br>Derate Above 50°C                             | 6.67                 | mW/°C |
| Operating & Storage Temperature Range...T <sub>J</sub> , T <sub>STRG</sub> | -65 to 100           | °C    |

Rating and Characteristic Curves (CZRB2110 Thru CZRB2350)

## ELECTRICAL CHARACTERISTICS

(T<sub>A</sub>=25°C unless otherwise noted)

| Device   | Nominal Zener Voltage V <sub>Z</sub> | Test Current I <sub>ZT</sub> | Maximum Zener Impedance           |                                   |                 | Max. Reverse Leakage Current |                | Maximum Forward Voltage @ I <sub>F</sub> = 0.2A |
|----------|--------------------------------------|------------------------------|-----------------------------------|-----------------------------------|-----------------|------------------------------|----------------|---|
|          |                                      |                              | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> | I <sub>ZK</sub> | I <sub>R</sub> @             | V <sub>R</sub> |   |
|          |                                      |                              | (Ohms)                            | (Ohms)                            | (mA)            | (uA)                         | (Volts)        |   |
| CZRB2110 | 110                                  | 5                            | 750                               | 5000                              | 0.25            | 0.5                          | 80             | 1.2   |
| CZRB2115 | 115                                  | 5                            | 750                               | 5000                              | 0.25            | 0.5                          | 85             | 1.2   |
| CZRB2120 | 120                                  | 5                            | 850                               | 5000                              | 0.25            | 0.5                          | 90             | 1.2   |
| CZRB2130 | 130                                  | 5                            | 1000                              | 5000                              | 0.25            | 0.5                          | 95             | 1.2   |
| CZRB2140 | 140                                  | 5                            | 1200                              | 5000                              | 0.25            | 0.5                          | 105            | 1.2   |
| CZRB2150 | 150                                  | 5                            | 1300                              | 5000                              | 0.25            | 0.5                          | 110            | 1.2   |
| CZRB2160 | 160                                  | 5                            | 1500                              | 5000                              | 0.25            | 0.5                          | 120            | 1.2   |
| CZRB2170 | 170                                  | 5                            | 2200                              | 5000                              | 0.25            | 0.5                          | 130            | 1.2   |
| CZRB2180 | 180                                  | 5                            | 2200                              | 5000                              | 0.25            | 0.5                          | 140            | 1.2   |
| CZRB2190 | 190                                  | 5                            | 2500                              | 5000                              | 0.25            | 0.5                          | 150            | 1.2   |
| CZRB2200 | 200                                  | 5                            | 2500                              | 8000                              | 0.25            | 0.5                          | 165            | 1.2   |
| CZRB2210 | 210                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 165            | 1.2   |
| CZRB2220 | 220                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 170            | 1.2   |
| CZRB2230 | 230                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 175            | 1.2   |
| CZRB2240 | 240                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 180            | 1.2   |
| CZRB2250 | 250                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 190            | 1.2   |
| CZRB2260 | 260                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 195            | 1.2   |
| CZRB2270 | 270                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 200            | 1.2   |
| CZRB2280 | 280                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 210            | 1.2   |
| CZRB2290 | 290                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 215            | 1.2   |
| CZRB2300 | 300                                  | 5                            | 5000                              | 9000                              | 0.25            | 0.5                          | 220            | 1.2   |
| CZRB2310 | 310                                  | 5                            | 5000                              | 9500                              | 0.25            | 0.5                          | 225            | 1.2   |
| CZRB2320 | 320                                  | 5                            | 5000                              | 9500                              | 0.25            | 0.5                          | 233            | 1.2   |
| CZRB2330 | 330                                  | 5                            | 5000                              | 9500                              | 0.25            | 0.5                          | 240            | 1.2   |
| CZRB2340 | 340                                  | 5                            | 5000                              | 9500                              | 0.25            | 0.5                          | 250            | 1.2   |
| CZRB2350 | 350                                  | 5                            | 5000                              | 9500                              | 0.25            | 0.5                          | 260            | 1.2   |

Note:

1. For 10% Tolerance on Zener Voltage, Specify No Suffix.
2. T<sub>A</sub> = 25°C unless otherwise specified. Measurements made at Thermal Equilibrium.

## Rating and Characteristic Curves (CZRB2110 Thru CZRB2350)

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPATION

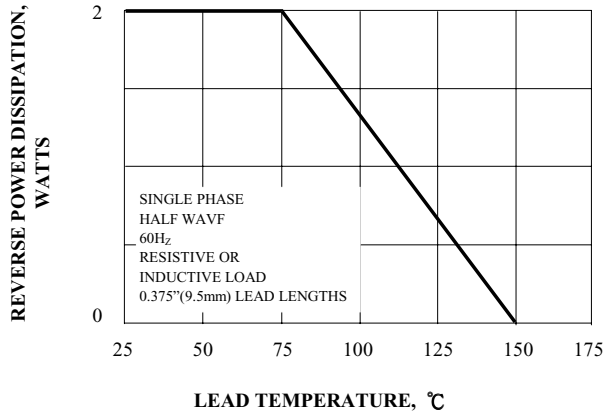


FIG. 2 - ZENER VOLTAGE VERSUS ZENER CURRENT

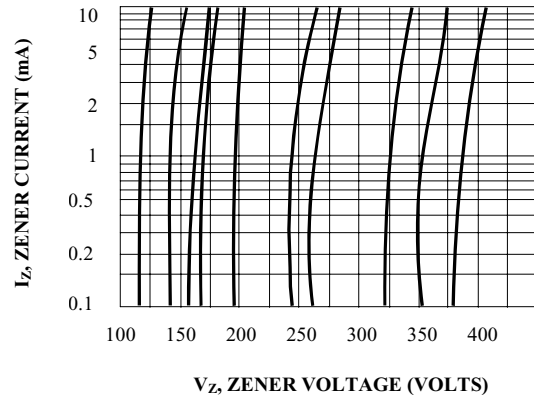


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

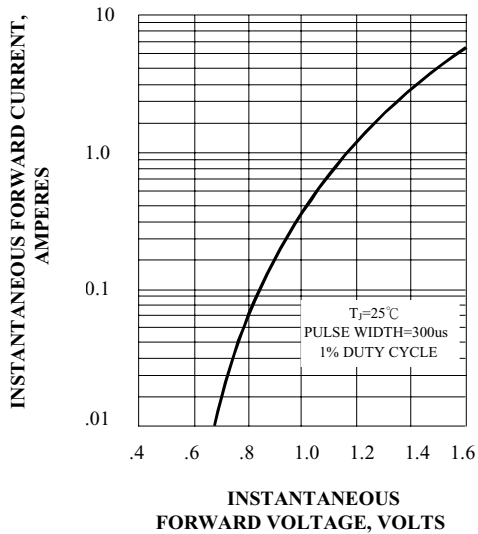


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

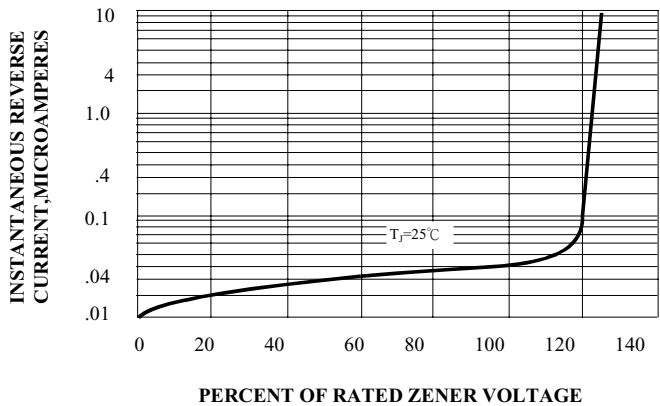


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS

