

SOT89 SILICON PLANAR VOLTAGE REGULATOR DIODES

ISSUE 4 - AUGUST 1996

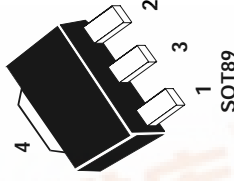
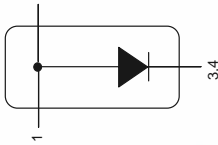
BZV49 SERIES

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

| Type | Zener Voltage V_Z at $I_Z=2mA$ | | Differential Resistance r_Z at $I_Z=2mA$ | | Temperature Coefficient S_Z at $I_Z=2mA$ | | Reverse Current I_R at V_R | |
|------|----------------------------------|------|--|----------|--|------|--------------------------------|----|
| | Nom. | Max. | Max. | Ω | Min | Max | μA | V |
| C30 | 30 | 32.0 | 80 | | 24.4 | 29.4 | 0.05 | 21 |
| C36 | 36 | 38.0 | 90 | | 30.4 | 37.4 | 0.05 | 25 |
| C39 | 39 | 41.0 | 130 | | 33.4 | 41.2 | 0.05 | 27 |
| C43 | 43 | 46.0 | 150 | | 37.6 | 46.6 | 0.05 | 30 |

| Type | Zener Voltage (V) V_Z at $I_Z=1mA$ | Differential Resistance (Ω) r_Z at $I_Z=1mA$ | Partmarking |
|---------------|--------------------------------------|---|-------------|
| BZV49: | Min. | Max. | |
| C3V9 | 3.0 | 600 | W8 |
| C4V3 | 3.3 | 600 | W9 |
| C4V7 | 3.7 | 500 | Z1 |
| C5V1 | 4.2 | 480 | Z2 |
| C5V6 | 4.8 | 400 | Z3 |
| C6V2 | 5.6 | 150 | Z4 |
| C6V8 | 6.3 | 80 | Z5 |
| C7V5 | 6.9 | 80 | Z6 |
| C8V2 | 7.6 | 80 | Z7 |
| C9V1 | 8.4 | 100 | Z8 |
| C10 | 9.3 | 150 | Z9 |
| C11 | 10.2 | 150 | Y1 |
| C15 | 13.7 | 200 | Y4 |
| C16 | 15.2 | 200 | Y5 |
| C22 | 20.7 | 250 | Y8 |
| C24 | 22.7 | 250 | Y9 |
| | V_Z at $I_Z=0.5mA$ | r_Z at $I_Z=0.5mA$ | |
| C30 | 27.8 | 300 | X2 |
| C36 | 33.8 | 350 | 36Y |
| C39 | 36.7 | 350 | X5 |
| C43 | 39.7 | 375 | X6 |

Pin Configuration



BZV49 SERIES

查询BZV49C30供应商

ABSOLUTE MAXIMUM RATINGS (as per Electron Coding System).

| PARAMETER | SYMBOL | VALUE | UNIT |
|--|----------------|-------------|-------------|
| Voltage Range | V_Z | 3.9 to 43 | V |
| Nominal Tolerance | C | ± 5 | % |
| Maximum Forward Current | I_F | 250 | mA |
| Power Dissipation at $T_{amb}=25^{\circ}C$ | P_{tot} | 1 | W |
| Operating and Storage Temperature Range | T_j, T_{stg} | -65 to +150 | $^{\circ}C$ |

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

| Type | Zener Voltage V_Z at $I_Z=5mA$ | | Differential Resistance r_Z at $I_Z=5mA$ | | Temperature Coefficient S_Z at $I_Z=5mA$ | | Reverse Current I_R at V_R | |
|---------------|----------------------------------|------|--|----------|--|------|--------------------------------|-----|
| | Nom. | Max. | Max. | Ω | Min | Max | μA | V |
| BZV49: | Min. | Max. | Max. | | Min | Max | Max | Max |
| C3V9 | 3.9 | 4.1 | 100 | | -3.5 | 0 | 3 | 1 |
| C4V3 | 4.3 | 4.6 | 90 | | -3.5 | 0 | 3 | 1 |
| C4V7 | 4.7 | 5.0 | 80 | | -3.5 | 0.2 | 3 | 2 |
| C5V1 | 5.1 | 5.4 | 60 | | -2.7 | 1.2 | 2 | 2 |
| C5V6 | 5.6 | 6.0 | 40 | | -2.0 | 2.5 | 1 | 2 |
| C6V2 | 6.2 | 6.6 | 10 | | 0.4 | 3.7 | 3 | 4 |
| C6V8 | 6.8 | 7.2 | 15 | | 1.2 | 4.5 | 2 | 4 |
| C7V5 | 7.5 | 7.9 | 15 | | 2.5 | 5.3 | 1 | 5 |
| C8V2 | 8.2 | 8.7 | 15 | | 3.2 | 6.2 | 0.7 | 5 |
| C9V1 | 9.1 | 9.6 | 15 | | 3.8 | 7.0 | 0.5 | 6 |
| C10 | 10 | 10.6 | 20 | | 4.5 | 8.0 | 0.2 | 7 |
| C11 | 11 | 11.6 | 20 | | 5.4 | 9.0 | 0.1 | 8 |
| C15 | 15 | 15.6 | 30 | | 9.2 | 13.0 | 0.05 | 10 |
| C16 | 16 | 17.1 | 40 | | 10.4 | 14.0 | 0.05 | 11 |
| C22 | 22 | 23.3 | 55 | | 16.4 | 20.0 | 0.05 | 15 |
| C24 | 24 | 25.6 | 70 | | 18.4 | 22.0 | 0.05 | 17 |

捷多邦, 专业PCB打样工厂, 24小时加急出货

SELECTED RANGE SUPPLIED. OTHER VOLTAGES MAY BE OFFERED SUBJECT TO AVAILABILITY.

BZV49 SERIES

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}\text{C}$).

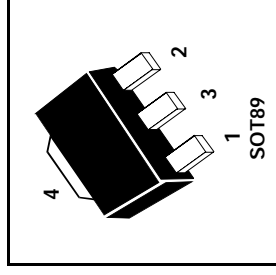
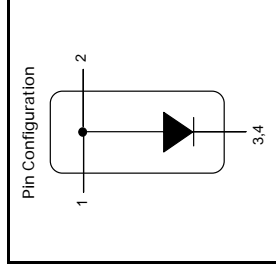
| Type | Zener Voltage V_Z at $I_Z=2\text{mA}$ | | Differential Resistance r_Z at $I_Z=2\text{mA}$ Ω | Temperature Coefficient S_Z at $I_Z=2\text{mA}$ $\text{mV}/^{\circ}\text{C}$ | | Reverse Current I_R at V_R | |
|------|---|------|---|---|------|--------------------------------|-----|
| | Min. | Max. | | Min | Max | μA | Max |
| C30 | 28.0 | 32.0 | 80 | 24.4 | 29.4 | 0.05 | 21 |
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| C43 | 40.0 | 46.0 | 150 | 37.6 | 46.6 | 0.05 | 30 |

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| C16 | 15.2 | 200 | Y5 |
| C22 | 20.7 | 250 | Y8 |
| C24 | 22.7 | 250 | Y9 |
| | V_Z at $I_Z=0.5\text{mA}$ | r_Z at $I_Z=0.5\text{mA}$ | |
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| C39 | 36.7 | 350 | X5 |
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|---------------|---|------|---|---|------|--------------------------------|-----|
| | Min. | Max. | | Min | Max | μA | Max |
| BZV49: | Nom. | Max. | | | | | |
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| C5V6 | 5.6 | 6.0 | 40 | -2.0 | 2.5 | 1 | 2 |
| C6V2 | 6.2 | 6.6 | 10 | 0.4 | 3.7 | 3 | 4 |
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| C7V5 | 7.5 | 7.9 | 15 | 2.5 | 5.3 | 1 | 5 |
| C8V2 | 8.2 | 8.7 | 15 | 3.2 | 6.2 | 0.7 | 5 |
| C9V1 | 9.1 | 9.6 | 15 | 3.8 | 7.0 | 0.5 | 6 |
| C10 | 10 | 10.6 | 20 | 4.5 | 8.0 | 0.2 | 7 |
| C11 | 11 | 11.6 | 20 | 5.4 | 9.0 | 0.1 | 8 |
| C15 | 15 | 15.6 | 30 | 9.2 | 13.0 | 0.05 | 10 |
| C16 | 16 | 17.1 | 40 | 10.4 | 14.0 | 0.05 | 11 |
| C22 | 22 | 23.3 | 55 | 16.4 | 20.0 | 0.05 | 15 |
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