

**VOLTAGE RANGE: 3.9 - 400V**  
**POWER: 3.0Watts**

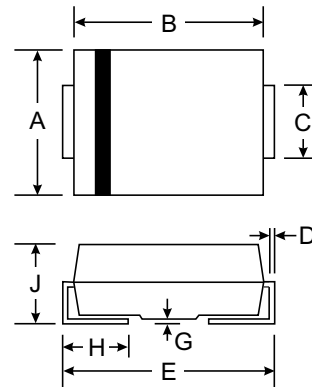
### Features

- Complete Voltage Range 3.9 to 400 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current



### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

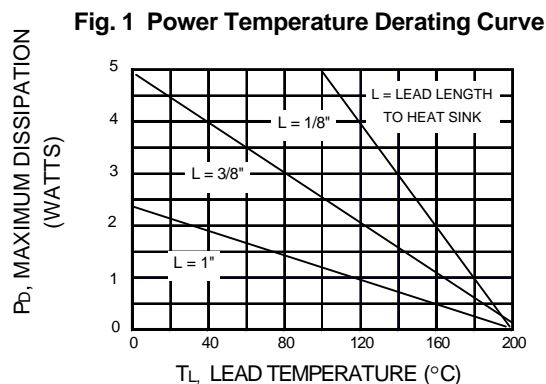


| SMA(DO-214AC) |      |      |
|---------------|------|------|
| Dim           | Min  | Max  |
| A             | 2.29 | 2.92 |
| B             | 4.00 | 4.60 |
| C             | 1.27 | 1.63 |
| D             | 0.15 | 0.31 |
| E             | 4.80 | 5.59 |
| G             | 0.10 | 0.20 |
| H             | 0.76 | 1.52 |
| J             | 2.01 | 2.62 |

All Dimensions in mm

### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

| Rating   | Symbol | Value         | Unit             |
|--|--------|---------------|------------------|
| DC Power Dissipation at $T_L = 75^\circ\text{C}$ (Note1) | $P_D$  | 3.0           | Watts            |
| Maximum Forward Voltage at $I_F = 200\text{ mA}$         | $V_F$  | 1.5           | Volts            |
| Junction Temperature Range                               | $T_J$  | - 55 to + 150 | $^\circ\text{C}$ |
| Storage Temperature Range                                | $T_S$  | - 55 to + 150 | $^\circ\text{C}$ |





## ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

| TYPE      | Nominal Zener Voltage |      | Maximum Zener Impedance |           |      | Maximum Reverse Leakage Current |      | Maximum DC Zener Current |
|-----------|-----------------------|------|-------------------------|-----------|------|---------------------------------|------|--------------------------|
|           | Vz @ IzT              | IzT  | ZzT @ IzT               | Zzk @ IzK | IzK  | I <sub>R</sub> @ V <sub>R</sub> |      | Iz <sub>M</sub>          |
|           | (V)                   | (mA) | (Ω)                     | (Ω)       | (mA) | (μA)                            | (V)  | (mA)                     |
| BZG03C3V9 | 3.9                   | 192  | 4.5                     | 400       | 1.0  | 80                              | 1.0  | 630                      |
| BZG03C4V3 | 4.3                   | 174  | 4.5                     | 400       | 1.0  | 30                              | 1.0  | 590                      |
| BZG03C4V7 | 4.7                   | 160  | 4.0                     | 500       | 1.0  | 20                              | 1.0  | 550                      |
| BZG03C5V1 | 5.1                   | 147  | 3.5                     | 550       | 1.0  | 5.0                             | 1.0  | 520                      |
| BZG03C5V6 | 5.6                   | 134  | 2.5                     | 600       | 1.0  | 5.0                             | 2.0  | 480                      |
| BZG03C6V2 | 6.2                   | 121  | 1.5                     | 700       | 1.0  | 5.0                             | 3.0  | 435                      |
| BZG03C6V8 | 6.8                   | 110  | 2.0                     | 700       | 1.0  | 50                              | 4.0  | 393                      |
| BZG03C7V5 | 7.5                   | 100  | 2.0                     | 700       | 0.5  | 50                              | 5.0  | 360                      |
| BZG03C8V2 | 8.2                   | 91   | 2.3                     | 700       | 0.5  | 50                              | 6.0  | 330                      |
| BZG03C9V1 | 9.1                   | 82   | 2.5                     | 700       | 0.5  | 50                              | 7.0  | 297                      |
| BZG03C10  | 10                    | 75   | 3.5                     | 700       | 0.3  | 50                              | 7.6  | 270                      |
| BZG03C11  | 11                    | 68   | 4.0                     | 700       | 0.25 | 50                              | 8.4  | 225                      |
| BZG03C12  | 12                    | 63   | 4.5                     | 700       | 0.25 | 1.0                             | 9.1  | 246                      |
| BZG03C13  | 13                    | 58   | 4.5                     | 700       | 0.25 | 0.5                             | 9.1  | 208                      |
| BZG03C14  | 14                    | 53   | 5.0                     | 700       | 0.25 | 0.5                             | 10.6 | 193                      |
| BZG03C15  | 15                    | 50   | 5.5                     | 700       | 0.25 | 0.5                             | 11.4 | 180                      |
| BZG03C16  | 16                    | 47   | 5.5                     | 700       | 0.25 | 0.5                             | 12.2 | 169                      |
| BZG03C17  | 17                    | 44   | 6.0                     | 750       | 0.25 | 0.5                             | 13.0 | 159                      |
| BZG03C18  | 18                    | 42   | 6.0                     | 750       | 0.25 | 0.5                             | 13.7 | 150                      |
| BZG03C19  | 19                    | 40   | 7.0                     | 750       | 0.25 | 0.5                             | 14.4 | 142                      |
| BZG03C20  | 20                    | 37   | 7.0                     | 750       | 0.25 | 0.5                             | 15.2 | 135                      |
| BZG03C22  | 22                    | 34   | 8.0                     | 750       | 0.25 | 0.5                             | 16.7 | 123                      |
| BZG03C24  | 24                    | 31   | 9.0                     | 750       | 0.25 | 0.5                             | 18.2 | 112                      |
| BZG03C27  | 27                    | 28   | 10                      | 750       | 0.25 | 0.5                             | 20.6 | 100                      |
| BZG03C28  | 28                    | 27   | 12                      | 750       | 0.25 | 0.5                             | 21.0 | 96                       |
| BZG03C30  | 30                    | 25   | 16                      | 1000      | 0.25 | 0.5                             | 22.5 | 90                       |
| BZG03C33  | 33                    | 23   | 20                      | 1000      | 0.25 | 0.5                             | 25.1 | 82                       |
| BZG03C36  | 36                    | 21   | 22                      | 1000      | 0.25 | 0.5                             | 27.4 | 75                       |
| BZG03C39  | 39                    | 19   | 28                      | 1000      | 0.25 | 0.5                             | 29.7 | 69                       |
| BZG03C43  | 43                    | 17   | 33                      | 1500      | 0.25 | 0.5                             | 32.7 | 63                       |
| BZG03C47  | 47                    | 16   | 38                      | 1500      | 0.25 | 0.5                             | 35.6 | 57                       |
| BZG03C51  | 51                    | 15   | 45                      | 1500      | 0.25 | 0.5                             | 38.8 | 53                       |
| BZG03C56  | 56                    | 13   | 50                      | 2000      | 0.25 | 0.5                             | 42.6 | 48                       |
| BZG03C62  | 62                    | 12   | 55                      | 2000      | 0.25 | 0.5                             | 47.1 | 44                       |
| BZG03C68  | 68                    | 11   | 70                      | 2000      | 0.25 | 0.5                             | 51.7 | 40                       |
| BZG03C75  | 75                    | 10   | 85                      | 2000      | 0.25 | 0.5                             | 56.0 | 36                       |
| BZG03C82  | 82                    | 9.1  | 95                      | 3000      | 0.25 | 0.5                             | 62.2 | 33                       |
| BZG03C91  | 91                    | 8.2  | 115                     | 3000      | 0.25 | 0.5                             | 69.2 | 30                       |
| BZG03C100 | 100                   | 7.5  | 160                     | 3000      | 0.25 | 0.5                             | 76.0 | 27                       |



## ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

| TYPE             | Nominal Zener Voltage |      | Maximum Zener Impedance |           |      | Maximum Reverse Leakage Current |       | Maximum DC Zener Current |
|------------------|-----------------------|------|-------------------------|-----------|------|---------------------------------|-------|--------------------------|
|                  | Vz @ IzT              | IzT  | ZzT @ IzT               | Zzk @ IzK | IzK  | IR @ VR                         |       | IzM                      |
|                  | (V)                   | (mA) | (Ω)                     | (Ω)       | (mA) | (μA)                            | (V)   | (mA)                     |
| <b>BZG03C110</b> | 110                   | 6.8  | 225                     | 4000      | 0.25 | 0.5                             | 83.6  | 25                       |
| <b>BZG03C120</b> | 120                   | 6.3  | 300                     | 4500      | 0.25 | 0.5                             | 91.2  | 22                       |
| <b>BZG03C130</b> | 130                   | 5.8  | 375                     | 5000      | 0.25 | 0.5                             | 98.8  | 21                       |
| <b>BZG03C140</b> | 140                   | 5.3  | 475                     | 5000      | 0.25 | 0.5                             | 106.4 | 19                       |
| <b>BZG03C150</b> | 150                   | 5.0  | 550                     | 6000      | 0.25 | 0.5                             | 114.0 | 18                       |
| <b>BZG03C160</b> | 160                   | 4.7  | 625                     | 6500      | 0.25 | 0.5                             | 121.6 | 17                       |
| <b>BZG03C170</b> | 170                   | 4.4  | 650                     | 7000      | 0.25 | 0.5                             | 130.4 | 16                       |
| <b>BZG03C180</b> | 180                   | 4.2  | 700                     | 7000      | 0.25 | 0.5                             | 136.8 | 15                       |
| <b>BZG03C190</b> | 190                   | 4.0  | 800                     | 8000      | 0.25 | 0.5                             | 144.8 | 14                       |
| <b>BZG03C200</b> | 200                   | 3.7  | 875                     | 8000      | 0.25 | 0.5                             | 152.0 | 13                       |
| <b>BZG03C220</b> | 220                   | 3.4  | 1600                    | 9000      | 0.25 | 1                               | 167.0 | 12                       |
| <b>BZG03C240</b> | 240                   | 3.1  | 1700                    | 9000      | 0.25 | 1                               | 182.0 | 11                       |
| <b>BZG03C270</b> | 270                   | 2.8  | 1800                    | 9000      | 0.25 | 1                               | 205.0 | 10                       |
| <b>BZG03C300</b> | 300                   | 2.5  | 1900                    | 9000      | 0.25 | 1                               | 228.0 | 9                        |
| <b>BZG03C330</b> | 330                   | 2.3  | 2200                    | 9000      | 0.25 | 1                               | 251.0 | 8                        |
| <b>BZG03C360</b> | 360                   | 2.1  | 2700                    | 9000      | 0.25 | 1                               | 274.0 | 8                        |
| <b>BZG03C400</b> | 400                   | 1.9  | 3500                    | 9000      | 0.25 | 1                               | 304.0 | 7                        |