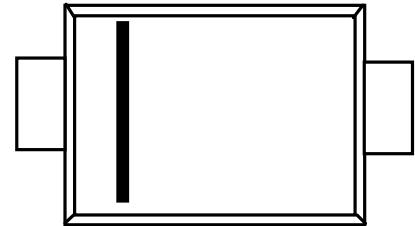


»Features

- Low Zener impedance.
- High reliability
- Halogen free and RoHS compliant
- Lead-free finish
- Epoxy : UL94V-O rate flame retardant



SMA(DO-214AC)

»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SMA Plastic Package

» Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

| Parameter | Symbol | Value | Units |
|--|---------------|------------|-----------------------------|
| Power Dissipation | PD | 1 | W |
| Thermal Resistance Junction To Ambient Air | R θ JA | 100 | $^{\circ}\text{C}/\text{W}$ |
| Thermal Resistance Junction To Leads | R θ JL | 25 | $^{\circ}\text{C}/\text{W}$ |
| Maximum Forward voltage IF=200mA | VF | 1.2 | V |
| Storage Temperature Range | TSTG | -55 to 150 | $^{\circ}\text{C}$ |
| Operating Junction Temperature Range | TJ | -55 to 150 | $^{\circ}\text{C}$ |

»Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

| Part Number | Nominal Zener Voltage | | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current |
|-------------|-----------------------|------|-------------------------|----------|------|---------------------------------|------|--------------------------|
| | VZ @IZT | | ZZT@IZT | ZZk@IZK | IZK | IR@VR | | IZM |
| | V | mA | Ω | Ω | m A | μA | V | mA |
| 1SMA4728A | 3.3 | 76 | 10 | 400 | 1 | 100 | 1 | 276 |
| 1SMA4729A | 3.6 | 69 | 10 | 400 | 1 | 100 | 1 | 252 |
| 1SMA4730A | 3.9 | 64 | 9 | 400 | 1 | 50 | 1 | 234 |
| 1SMA4731A | 4.3 | 58 | 9 | 400 | 1 | 10 | 1 | 217 |
| 1SMA4732A | 4.7 | 53 | 8 | 500 | 1 | 10 | 1 | 193 |
| 1SMA4733A | 5.1 | 49 | 7 | 550 | 1 | 10 | 1 | 178 |
| 1SMA4734A | 5.6 | 45 | 5 | 600 | 1 | 10 | 2 | 162 |
| 1SMA4735A | 6.2 | 41 | 2 | 700 | 1 | 10 | 3 | 146 |
| 1SMA4736A | 6.8 | 37 | 3.5 | 700 | 1 | 10 | 4 | 133 |
| 1SMA4737A | 7.5 | 34 | 4 | 700 | 0.5 | 10 | 5 | 121 |
| 1SMA4738A | 8.2 | 31 | 4.5 | 700 | 0.5 | 10 | 6 | 110 |
| 1SMA4739A | 9.1 | 28 | 5 | 700 | 0.5 | 10 | 7 | 100 |
| 1SMA4740A | 10 | 25 | 7 | 700 | 0.25 | 10 | 7.6 | 91 |
| 1SMA4741A | 11 | 23 | 8 | 700 | 0.25 | 5 | 8.4 | 83 |
| 1SMA4742A | 12 | 21 | 9 | 700 | 0.25 | 5 | 9.1 | 76 |
| 1SMA4743A | 13 | 19 | 10 | 700 | 0.25 | 5 | 9.9 | 69 |
| 1SMA4744A | 15 | 17 | 14 | 700 | 0.25 | 5 | 11.4 | 61 |
| 1SMA4745A | 16 | 15.5 | 16 | 700 | 0.25 | 5 | 12.2 | 57 |
| 1SMA4746A | 18 | 14 | 20 | 750 | 0.25 | 5 | 13.7 | 50 |
| 1SMA4747A | 20 | 12.5 | 22 | 750 | 0.25 | 5 | 15.2 | 45 |
| 1SMA4748A | 22 | 11.5 | 25 | 750 | 0.25 | 5 | 16.7 | 41 |
| 1SMA4749A | 24 | 10.5 | 28 | 750 | 0.25 | 5 | 18.2 | 38 |
| 1SMA4750A | 27 | 9.5 | 35 | 750 | 0.25 | 5 | 20.6 | 34 |
| 1SMA4751A | 30 | 8.5 | 40 | 1000 | 0.25 | 5 | 22.8 | 30 |
| 1SMA4752A | 33 | 7.5 | 45 | 1000 | 0.25 | 5 | 25.1 | 27 |
| 1SMA4753A | 36 | 7 | 50 | 1000 | 0.25 | 5 | 27.4 | 25 |
| 1SMA4754A | 39 | 6.5 | 60 | 1000 | 0.25 | 5 | 29.7 | 23 |
| 1SMA4755A | 43 | 6 | 70 | 1500 | 0.25 | 5 | 32.7 | 22 |
| 1SMA4756A | 47 | 5.5 | 80 | 1500 | 0.25 | 5 | 35.8 | 19 |
| 1SMA4757A | 51 | 5 | 95 | 1500 | 0.25 | 5 | 38.8 | 18 |
| 1SMA4758A | 56 | 4.5 | 110 | 2000 | 0.25 | 5 | 42.6 | 16 |
| 1SMA4759A | 62 | 4 | 125 | 2000 | 0.25 | 5 | 47.1 | 14 |

| Part Number | Nominal Zener voltage | | Maximum Zener impedance | | | Maximum reverse Leakage Current | | Maximum DC Zener Current |
|-------------|-----------------------|-----|-------------------------|---------|------|---------------------------------|------|--------------------------|
| | VZ @IZT | | ZZT@IZT | ZZk@IZK | IZK | IR@VR | | IZM |
| | V | mA | Ω | Ω | m A | μA | V | mA |
| 1SMA4760A | 68 | 3.7 | 150 | 2000 | 0.25 | 5 | 51.7 | 13 |
| 1SMA4761A | 75 | 3.3 | 175 | 2000 | 0.25 | 5 | 56 | 12 |
| 1SMA4762A | 82 | 3 | 200 | 3000 | 0.25 | 5 | 62.2 | 11 |
| 1SMA4763A | 91 | 2.8 | 250 | 3000 | 0.25 | 5 | 69.2 | 10 |
| 1SMA4764A | 100 | 2.5 | 350 | 3000 | 0.25 | 5 | 76 | 9 |

»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)

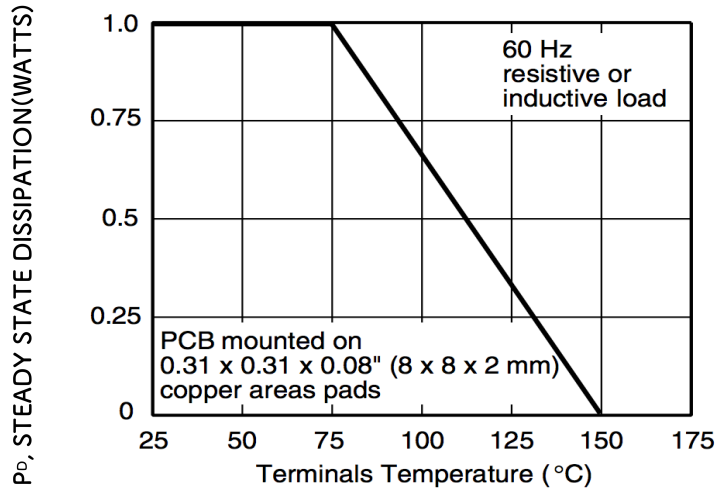


Figure 1 Power Temperature Derating Curve

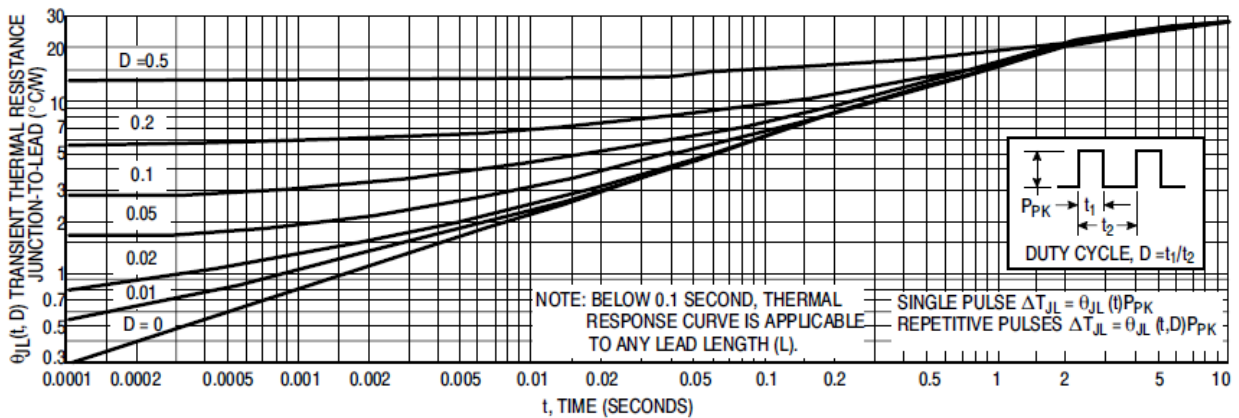


Figure 2. Typical Thermal Response L, Lead Length = 3/8 Inch

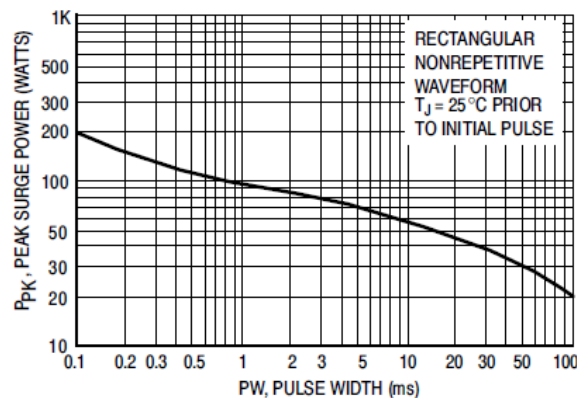
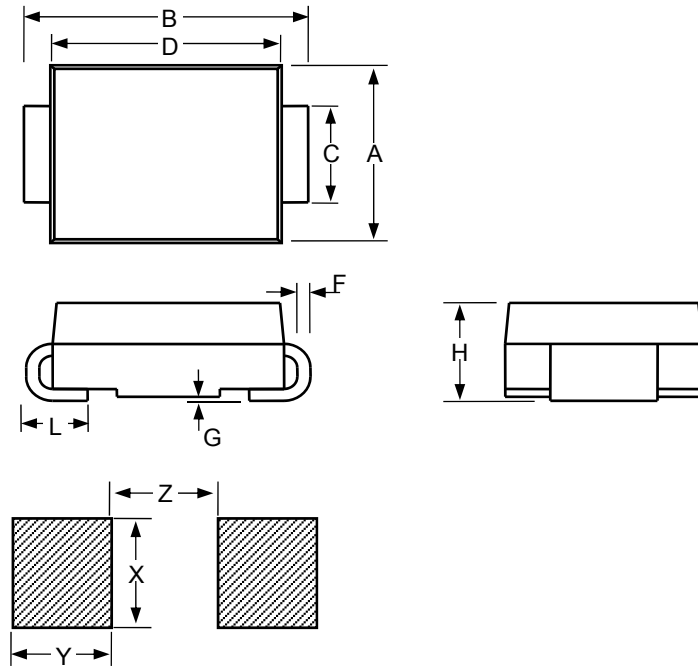


Figure 3. Maximum Surge Power

»Package Information

SMA



| SMA | | | | | | |
|-----------|--------|-------|-------|-------------|------|-------|
| Dimension | Inches | | | Millimeters | | |
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.1 | | 0.11 | 2.54 | | 2.8 |
| B | 0.194 | | 0.223 | 4.93 | | 5.66 |
| C | 0.051 | | 0.067 | 1.3 | | 1.7 |
| D | 0.157 | | 0.177 | 3.99 | | 4.5 |
| F | 0.006 | | 0.012 | 0.152 | | 0.305 |
| G | - | | 0.008 | - | | 0.203 |
| H | 0.078 | | 0.095 | 1.98 | | 2.42 |
| L | 0.03 | | 0.06 | 0.76 | | 1.52 |
| X | | 0.085 | | | 2.16 | |
| Y | | 0.07 | | | 1.78 | |
| Z | | 0.079 | | | 2 | |

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