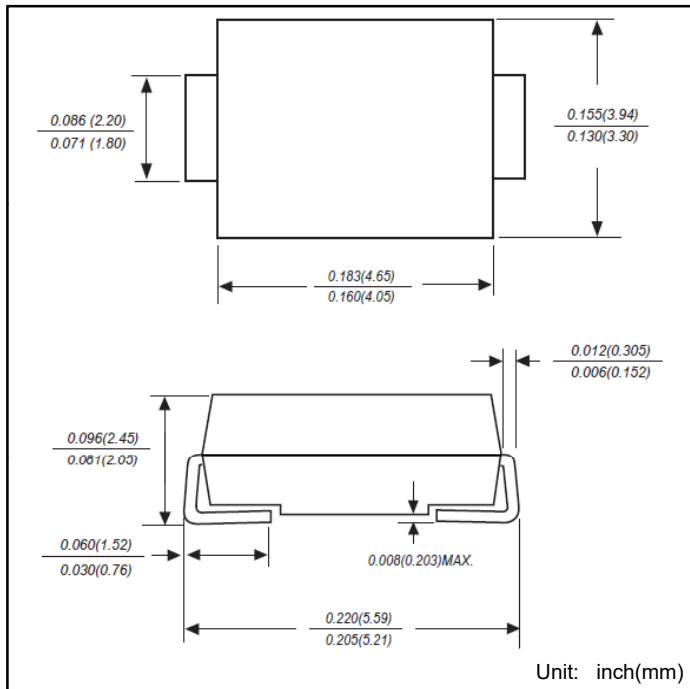


DO214AA(SMB)



Features

- Glass passivated chip
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Low reverse leakage
- For use in stabilizing and clipping with high power rating
- RoHS compliant

Mechanical Data

- Case: DO214AA Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any

| Parameter | Symbols | Value | Unit |
|--|----------------|-------------|------------------|
| DC Power dissipation at $T_L = 75\text{ }^\circ\text{C}^{(1)}$ | P_D | 5.0 | W |
| Maximum forward voltage at $I_F=200\text{mA}$ | V_F | 1.2 | V |
| Junction temperature range | T_J, T_{STG} | -55 to +150 | $^\circ\text{C}$ |
| Storage temperature range | T_J, T_{STG} | -55 to +150 | $^\circ\text{C}$ |

Note :

(1) T_L =Lead temperature at 3/8" (9.5mm)from body

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

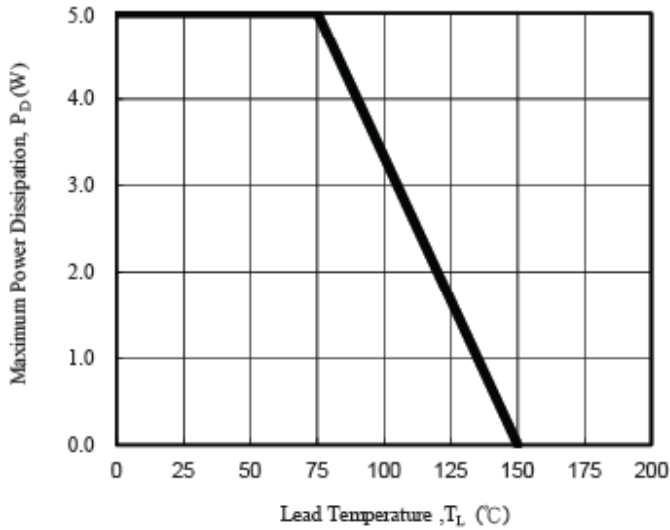


Fig. 1 - Power Temperature Derating Curve

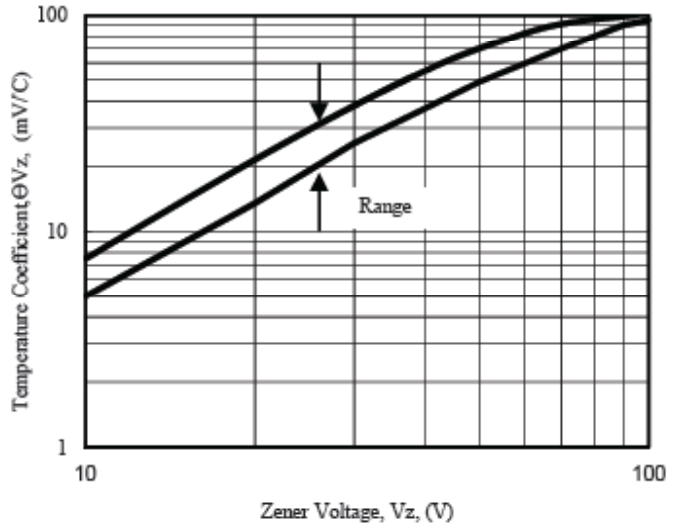


Fig. 2 - Temperature Coefficients v.s. Zener Voltage



Fig. 3 - Typical Thermal Resistance v.s. Lead Length

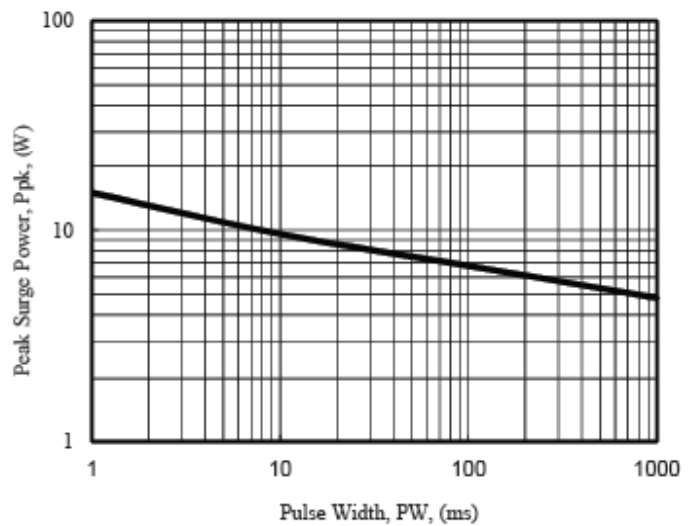


Fig. 4 - Maximum Surge Power

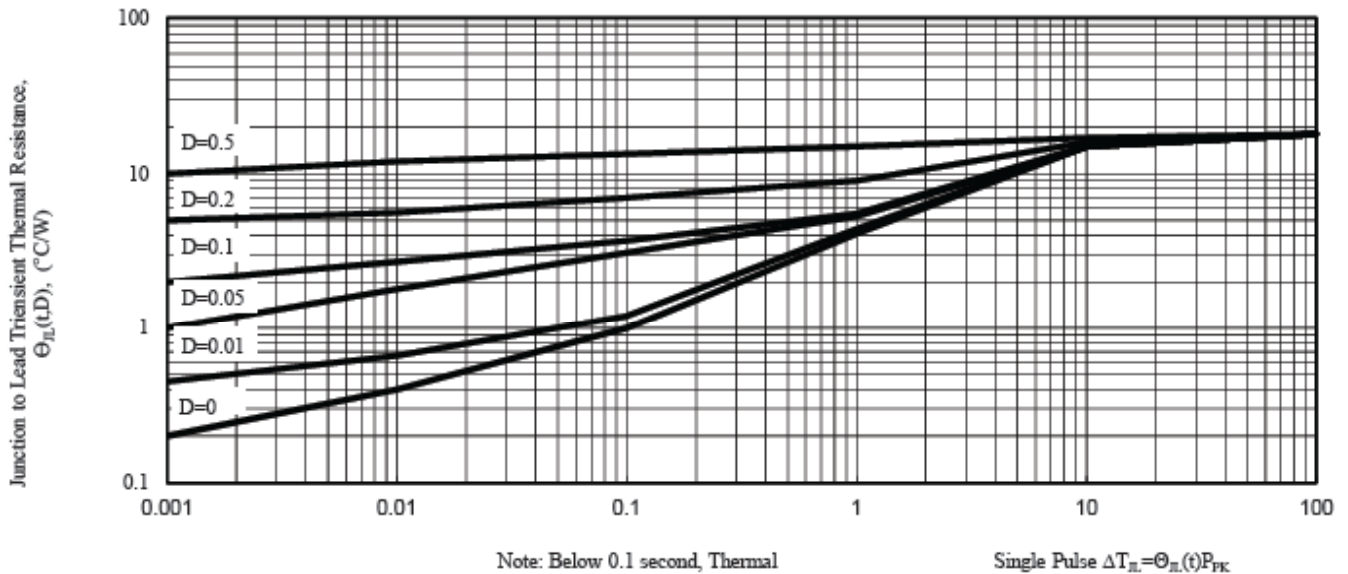


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch



SMB53xxA SERIES

| Part Number | Device Marking Code | Nominal Zener Voltage @I _T | | | I _{ZT} (mA) | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current |
|-------------|---------------------|---------------------------------------|-------------------------|-------------------------|----------------------|--|--|----------------------|--|--------------------|--------------------------|
| | | V _{Z AVE.} (V) | V _{Z MIN.} (V) | V _{Z MAX.} (V) | | Z _{ZT MAX.} (Ω) @I _{ZT} | Z _{ZK MAX.} (Ω) @I _{ZK} | I _{ZK} (mA) | I _R (μA) @V _R | V _R (V) | |
| SMB5333A | 333A | 3.3 | 3.14 | 3.47 | 380 | 3.0 | 400 | 1.00 | 300 | 1.0 | 1437.0 |
| SMB5334A | 334A | 3.6 | 3.42 | 3.78 | 350.0 | 2.5 | 500 | 1.00 | 150 | 1.0 | 1317.0 |
| SMB5335A | 335A | 3.9 | 3.71 | 4.10 | 320.0 | 2.0 | 500 | 1.00 | 50 | 1.0 | 1216.0 |
| SMB5336A | 336A | 4.3 | 4.09 | 4.52 | 290.0 | 2.0 | 500 | 1.00 | 10 | 1.0 | 1103.0 |
| SMB5337A | 337A | 4.7 | 4.47 | 4.94 | 260.0 | 2.0 | 450 | 1.00 | 5 | 1.0 | 1009.0 |
| SMB5338A | 338A | 5.1 | 4.85 | 5.36 | 240.0 | 1.5 | 400 | 1.00 | 1.0 | 1.0 | 930.0 |
| SMB5339A | 339A | 5.6 | 5.32 | 5.88 | 220.0 | 1.0 | 400 | 1.00 | 1.0 | 2.0 | 846.0 |
| SMB5340A | 340A | 6.0 | 5.70 | 6.30 | 200.0 | 1.0 | 300 | 1.00 | 1.0 | 3.0 | 790.0 |
| SMB5341A | 341A | 6.2 | 5.89 | 6.51 | 200.0 | 1.0 | 200 | 1.00 | 1.0 | 3.0 | 765.0 |
| SMB5342A | 342A | 6.8 | 6.46 | 7.14 | 175.0 | 1.0 | 200 | 1.00 | 10.0 | 5.2 | 700.0 |
| SMB5343A | 343A | 7.5 | 7.13 | 7.88 | 175.0 | 1.5 | 200 | 1.00 | 10.0 | 5.7 | 630.0 |
| SMB5344A | 344A | 8.2 | 7.79 | 8.61 | 150.0 | 1.5 | 200 | 1.00 | 10.0 | 6.2 | 580.0 |
| SMB5345A | 345A | 8.7 | 8.27 | 9.14 | 150.0 | 2.0 | 200 | 1.00 | 10.0 | 6.6 | 545.0 |
| SMB5346A | 346A | 9.1 | 8.65 | 9.56 | 150.0 | 2.0 | 150 | 1.00 | 7.5 | 6.9 | 520.0 |
| SMB5347A | 347A | 10.0 | 9.50 | 10.50 | 125.0 | 2.0 | 125 | 1.00 | 5 | 7.6 | 475.0 |
| SMB5348A | 348A | 11.0 | 10.45 | 11.55 | 125.0 | 2.5 | 125 | 1.00 | 5 | 8.4 | 430.0 |
| SMB5349A | 349A | 12.0 | 11.40 | 12.60 | 100.0 | 2.5 | 125 | 1.00 | 2 | 9.1 | 395.0 |
| SMB5350A | 350A | 13.0 | 12.35 | 13.65 | 100.0 | 2.5 | 100 | 1.00 | 1 | 9.9 | 365.0 |
| SMB5351A | 351A | 14.0 | 13.30 | 14.70 | 100.0 | 2.5 | 75 | 1.00 | 1 | 10.6 | 340.0 |
| SMB5352A | 352A | 15.0 | 14.25 | 15.75 | 75.0 | 2.5 | 75 | 1.00 | 1 | 11.5 | 315.0 |
| SMB5353A | 353A | 16.0 | 15.20 | 16.80 | 75.0 | 2.5 | 75 | 1.00 | 1 | 12.2 | 295.0 |
| SMB5354A | 354A | 17.0 | 16.15 | 17.85 | 70.0 | 2.5 | 75 | 1.00 | 0.5 | 12.9 | 280.0 |
| SMB5355A | 355A | 18.0 | 17.10 | 18.90 | 65.0 | 2.5 | 75 | 1.00 | 0.5 | 13.7 | 265.0 |
| SMB5356A | 356A | 19.0 | 18.05 | 19.95 | 65.0 | 3.0 | 75 | 1.00 | 0.5 | 14.4 | 250.0 |
| SMB5357A | 357A | 20.0 | 19.00 | 21.00 | 65.0 | 3.0 | 75 | 1.00 | 0.5 | 15.2 | 237.0 |
| SMB5358A | 358A | 22.0 | 20.90 | 23.10 | 50.0 | 3.5 | 75 | 1.00 | 0.5 | 16.7 | 216.0 |
| SMB5359A | 359A | 24.0 | 22.80 | 25.20 | 50.0 | 3.5 | 100 | 1.00 | 0.5 | 18.2 | 198.0 |
| SMB5360A | 360A | 25.0 | 23.75 | 26.25 | 50.0 | 4.0 | 110 | 1.00 | 0.5 | 19.0 | 190.0 |
| SMB5361A | 361A | 27.0 | 25.65 | 28.35 | 50.0 | 5.0 | 120 | 1.00 | 0.5 | 20.6 | 176.0 |
| SMB5362A | 362A | 28.0 | 26.60 | 29.40 | 50.0 | 6.0 | 130 | 1.00 | 0.5 | 21.2 | 170.0 |
| SMB5363A | 363A | 30.0 | 28.50 | 31.50 | 40.0 | 8.0 | 140 | 1.00 | 0.5 | 22.8 | 158.0 |
| SMB5364A | 364A | 33.0 | 31.35 | 34.65 | 40.0 | 10.0 | 150 | 1.00 | 0.5 | 25.1 | 144.0 |
| SMB5365A | 365A | 36.0 | 34.20 | 37.80 | 30.0 | 11.0 | 160 | 1.00 | 0.5 | 27.4 | 132.0 |
| SMB5366A | 366A | 39.0 | 37.05 | 40.95 | 30.0 | 14.0 | 170 | 1.00 | 0.5 | 29.7 | 122.0 |
| SMB5367A | 367A | 43.0 | 40.85 | 45.15 | 30.0 | 20.0 | 190 | 1.00 | 0.5 | 32.7 | 110.0 |
| SMB5368A | 368A | 47.0 | 44.65 | 49.35 | 25.0 | 25.0 | 210 | 1.00 | 0.5 | 35.8 | 100.0 |
| SMB5369A | 369A | 51.0 | 48.45 | 53.55 | 25.0 | 27.0 | 230 | 1.00 | 0.5 | 38.8 | 93.0 |
| SMB5370A | 370A | 56.0 | 53.20 | 58.80 | 20.0 | 35.0 | 280 | 1.00 | 0.5 | 42.6 | 86.0 |
| SMB5371A | 371A | 60.0 | 57.00 | 63.00 | 20.0 | 40.0 | 350 | 1.00 | 0.5 | 42.5 | 79.0 |
| SMB5372A | 372A | 62.0 | 58.90 | 65.10 | 20.0 | 42.0 | 400 | 1.00 | 0.5 | 47.1 | 76.0 |
| SMB5373A | 373A | 68.0 | 64.60 | 71.40 | 20.0 | 44.0 | 500 | 1.00 | 0.5 | 51.7 | 70.0 |
| SMB5374A | 374A | 75.0 | 71.25 | 78.75 | 20.0 | 45.0 | 620 | 1.00 | 0.5 | 56.0 | 63.0 |
| SMB5375A | 375A | 82.0 | 77.90 | 86.10 | 15.0 | 65.0 | 720 | 1.00 | 0.5 | 62.2 | 58.0 |
| SMB5376A | 376A | 87.0 | 82.65 | 91.35 | 15.0 | 75.0 | 760 | 1.00 | 0.5 | 66.0 | 54.5 |
| SMB5377A | 377A | 91.0 | 86.45 | 95.55 | 15.0 | 75.0 | 760 | 1.00 | 0.5 | 69.2 | 52.5 |
| SMB5378A | 378A | 100.0 | 95.00 | 105.00 | 12.0 | 90.0 | 800 | 1.00 | 0.5 | 76.0 | 47.5 |
| SMB5379A | 379A | 110.0 | 104.50 | 115.50 | 12.0 | 125.0 | 1000 | 1.00 | 0.5 | 83.6 | 43.0 |
| SMB5380A | 380A | 120.0 | 114.00 | 126.00 | 10.0 | 170.0 | 1150 | 1.00 | 0.5 | 91.2 | 39.5 |
| SMB5381A | 381A | 130.0 | 123.50 | 136.50 | 10.0 | 190.0 | 1250 | 1.00 | 0.5 | 98.8 | 36.6 |
| SMB5382A | 382A | 140.0 | 133.00 | 147.00 | 8.0 | 230.0 | 1500 | 1.00 | 0.5 | 106.0 | 34.0 |
| SMB5383A | 383A | 150.0 | 142.50 | 157.50 | 8.0 | 330.0 | 1500 | 1.00 | 0.5 | 114.0 | 31.6 |
| SMB5384A | 384A | 160.0 | 152.00 | 168.00 | 8.0 | 350.0 | 1650 | 1.00 | 0.5 | 122.0 | 29.4 |
| SMB5385A | 385A | 170.0 | 161.50 | 178.50 | 8.0 | 380.0 | 1750 | 1.00 | 0.5 | 129.0 | 28.0 |
| SMB5386A | 386A | 180.0 | 171.00 | 189.00 | 5.0 | 430.0 | 1750 | 1.00 | 0.5 | 137.0 | 26.4 |
| SMB5387A | 387A | 190.0 | 180.50 | 199.50 | 5.0 | 450.0 | 1850 | 1.00 | 0.5 | 144.0 | 25.0 |
| SMB5388A | 388A | 200.0 | 190.00 | 210.00 | 5.0 | 480.0 | 1850 | 1.00 | 0.5 | 152.0 | 23.6 |

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