

SZ605B - SZ60D0

SURFACE MOUNT SILICON ZENER DIODES

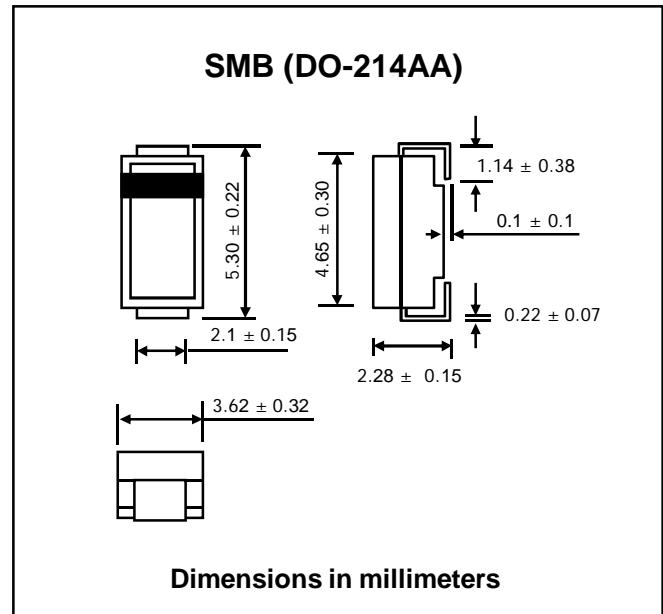
V_Z : 5.1 - 200 Volts
P_D : 5 Watts

FEATURES :

- * Complete Voltage Range 5.1 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Pb / RoHS Free

MECHANICAL DATA

- * Case : SMB Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.108 gram



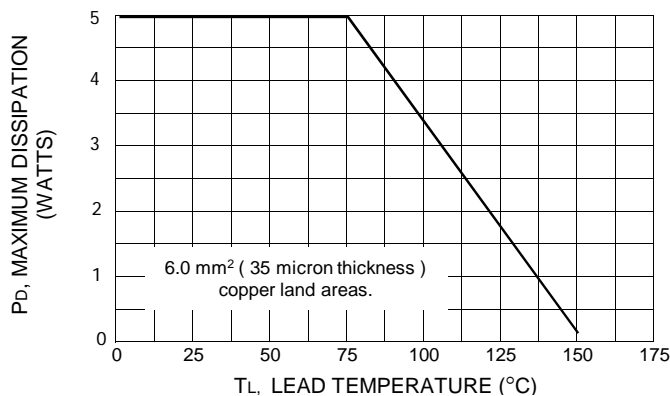
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

| Rating | Symbol | Value | Unit |
|--|----------------|---------------|------|
| DC Power Dissipation at T _L = 75 °C (Note1) | P _D | 5.0 | W |
| Maximum Forward Voltage at I _F = 1.0 A | V _F | 1.2 | V |
| Junction Temperature Range | T _J | - 55 to + 150 | °C |
| Storage Temperature Range | T _s | - 55 to + 150 | °C |

Note : (1) T_L = Lead temperature at 6.0 mm² (35 micron thickness) copper land areas.

Fig. 1 POWER TEMPERATURE DERATING CURVE



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) | (μ A) | (V) | (mA) |
| SZ605B | 5.1 | 240 | 1.5 | 400 | 1.0 | 1.0 | 1.0 | 930 |
| SZ605G | 5.6 | 220 | 1.0 | 400 | 1.0 | 1.0 | 2.0 | 865 |
| SZ606A | 6.0 | 200 | 1.0 | 300 | 1.0 | 1.0 | 3.0 | 790 |
| SZ606C | 6.2 | 200 | 1.0 | 200 | 1.0 | 1.0 | 3.0 | 765 |
| SZ606I | 6.8 | 175 | 1.0 | 200 | 1.0 | 10 | 4.9 | 700 |
| SZ607F | 7.5 | 175 | 1.5 | 200 | 1.0 | 10 | 5.4 | 630 |
| SZ608C | 8.2 | 150 | 1.5 | 200 | 1.0 | 10 | 5.9 | 580 |
| SZ608H | 8.7 | 150 | 2.0 | 200 | 1.0 | 10 | 6.25 | 545 |
| SZ609B | 9.1 | 150 | 2.0 | 150 | 1.0 | 7.5 | 6.6 | 520 |
| SZ6010 | 10 | 125 | 2.0 | 125 | 1.0 | 5.0 | 7.2 | 475 |
| SZ6011 | 11 | 125 | 2.5 | 125 | 1.0 | 5.0 | 8.0 | 430 |
| SZ6012 | 12 | 100 | 2.5 | 125 | 1.0 | 2.0 | 8.6 | 395 |
| SZ6013 | 13 | 100 | 2.5 | 100 | 1.0 | 1.0 | 9.4 | 365 |
| SZ6014 | 14 | 100 | 2.5 | 75 | 1.0 | 1.0 | 10.1 | 340 |
| SZ6015 | 15 | 75 | 2.5 | 75 | 1.0 | 1.0 | 10.8 | 315 |
| SZ6016 | 16 | 75 | 2.5 | 75 | 1.0 | 1.0 | 11.5 | 295 |
| SZ6017 | 17 | 70 | 2.5 | 75 | 1.0 | 0.5 | 12.2 | 280 |
| SZ6018 | 18 | 65 | 2.5 | 75 | 1.0 | 0.5 | 13.0 | 265 |
| SZ6019 | 19 | 65 | 3.0 | 75 | 1.0 | 0.5 | 13.7 | 250 |
| SZ6020 | 20 | 65 | 3.0 | 75 | 1.0 | 0.5 | 14.4 | 237 |
| SZ6022 | 22 | 50 | 3.5 | 75 | 1.0 | 0.5 | 15.8 | 216 |
| SZ6024 | 24 | 50 | 3.5 | 100 | 1.0 | 0.5 | 17.3 | 198 |
| SZ6025 | 25 | 50 | 4.0 | 110 | 1.0 | 0.5 | 18.0 | 190 |
| SZ6027 | 27 | 50 | 5.0 | 120 | 1.0 | 0.5 | 19.4 | 176 |
| SZ6028 | 28 | 50 | 6.0 | 130 | 1.0 | 0.5 | 20.1 | 170 |
| SZ6030 | 30 | 40 | 8.0 | 140 | 1.0 | 0.5 | 21.6 | 158 |
| SZ6033 | 33 | 40 | 10 | 150 | 1.0 | 0.5 | 23.8 | 144 |
| SZ6036 | 36 | 30 | 11 | 160 | 1.0 | 0.5 | 25.9 | 132 |
| SZ6039 | 39 | 30 | 14 | 170 | 1.0 | 0.5 | 28.1 | 122 |
| SZ6043 | 43 | 30 | 20 | 190 | 1.0 | 0.5 | 31.0 | 110 |
| SZ6047 | 47 | 25 | 25 | 210 | 1.0 | 0.5 | 33.8 | 100 |
| SZ6051 | 51 | 25 | 27 | 230 | 1.0 | 0.5 | 36.7 | 93.0 |
| SZ6056 | 56 | 20 | 35 | 280 | 1.0 | 0.5 | 40.3 | 86.0 |
| SZ6060 | 60 | 20 | 40 | 350 | 1.0 | 0.5 | 43.0 | 79.0 |
| SZ6062 | 62 | 20 | 42 | 400 | 1.0 | 0.5 | 44.6 | 76.0 |
| SZ6068 | 68 | 20 | 44 | 500 | 1.0 | 0.5 | 49.0 | 70.0 |
| SZ6075 | 75 | 20 | 45 | 620 | 1.0 | 0.5 | 54.0 | 63.0 |
| SZ6082 | 82 | 15 | 65 | 720 | 1.0 | 0.5 | 59.0 | 58.0 |
| SZ6087 | 87 | 15 | 75 | 760 | 1.0 | 0.5 | 63.0 | 54.5 |
| SZ6091 | 91 | 15 | 75 | 760 | 1.0 | 0.5 | 65.5 | 52.5 |
| SZ60B0 | 100 | 12 | 90 | 800 | 1.0 | 0.5 | 72.0 | 47.5 |
| SZ60B1 | 110 | 12 | 125 | 1000 | 1.0 | 0.5 | 79.2 | 43.0 |
| SZ60B2 | 120 | 10 | 170 | 1150 | 1.0 | 0.5 | 86.4 | 39.5 |
| SZ60B3 | 130 | 10 | 190 | 1250 | 1.0 | 0.5 | 93.2 | 36.6 |
| SZ60B4 | 140 | 8.0 | 230 | 1500 | 1.0 | 0.5 | 101 | 34.0 |
| SZ60B5 | 150 | 8.0 | 330 | 1500 | 1.0 | 0.5 | 108 | 31.6 |
| SZ60B6 | 160 | 8.0 | 350 | 1650 | 1.0 | 0.5 | 115 | 29.4 |
| SZ60B7 | 170 | 8.0 | 380 | 1750 | 1.0 | 0.5 | 122 | 28.0 |
| SZ60B8 | 180 | 5.0 | 430 | 1750 | 1.0 | 0.5 | 130 | 26.4 |
| SZ60B9 | 190 | 5.0 | 450 | 1850 | 1.0 | 0.5 | 137 | 25.0 |
| SZ60D0 | 200 | 5.0 | 480 | 1850 | 1.0 | 0.5 | 144 | 23.6 |

Notes :

- (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 10\%$, altered the fourth number of type from " 0 " for $\pm 10\%$ tolerance to be " 5 " for $\pm 5.0\%$ tolerance.
- (2) " SZ " will be omitted in marking on the diode.

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