

SZ353D - SZ35D0

SURFACE MOUNT SILICON ZENER DIODES

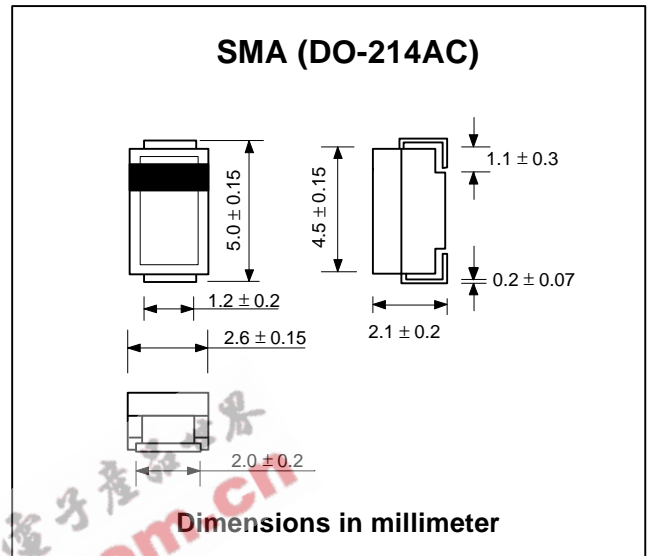
V_Z : 3.3 - 200 Volts
P_D : 1.5 Watts

FEATURES :

- * Complete Voltage Range 3.3 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : SMA (DO-214AC) Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead formed for Surface mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.064 grams



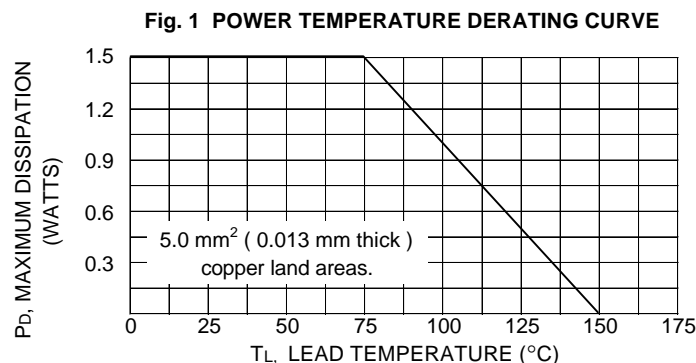
MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

| Rating | Symbol | Value | Unit |
|--|----------------|---------------|------|
| DC Power Dissipation at T _L = 75 °C (Note1) | P _D | 1.5 | W |
| Maximum Forward Voltage at I _F = 200 mA | V _F | 1.5 | 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 5.0 mm² (0.013 mm thick) copper land areas.



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) |
| SZ353D | 3.3 | 113.6 | 10 | 500 | 1.0 | 100 | 1.0 | 454 |
| SZ353G | 3.6 | 104.2 | 9.0 | 500 | 1.0 | 75 | 1.0 | 416 |
| SZ353J | 3.9 | 96.1 | 7.5 | 500 | 1.0 | 50 | 1.0 | 384 |
| SZ354D | 4.3 | 87.2 | 6.0 | 500 | 1.0 | 50 | 1.0 | 348 |
| SZ354H | 4.7 | 79.8 | 5.0 | 500 | 1.0 | 50 | 1.5 | 319 |
| SZ355B | 5.1 | 73.5 | 4.0 | 350 | 1.0 | 50 | 2.0 | 294 |
| SZ355G | 5.6 | 66.9 | 2.0 | 250 | 1.0 | 50 | 3.0 | 267 |
| SZ356C | 6.2 | 60.5 | 2.0 | 200 | 1.0 | 50 | 4.0 | 241 |
| SZ356I | 6.8 | 55.1 | 2.5 | 200 | 1.0 | 50 | 5.2 | 220 |
| SZ357F | 7.5 | 50.0 | 3.0 | 400 | 0.5 | 50 | 6.0 | 200 |
| SZ358C | 8.2 | 45.7 | 3.5 | 400 | 0.5 | 50 | 6.5 | 182 |
| SZ359B | 9.1 | 41.2 | 4.0 | 500 | 0.5 | 50 | 7.0 | 164 |
| SZ3510 | 10 | 37.5 | 4.5 | 500 | 0.25 | 50 | 8.0 | 150 |
| SZ3511 | 11 | 34.1 | 5.5 | 550 | 0.25 | 50 | 8.4 | 136 |
| SZ3512 | 12 | 31.2 | 6.5 | 550 | 0.25 | 1.0 | 9.1 | 125 |
| SZ3513 | 13 | 28.8 | 7.0 | 550 | 0.25 | 1.0 | 9.9 | 115 |
| SZ3515 | 15 | 25.0 | 9.0 | 600 | 0.25 | 1.0 | 11.4 | 100 |
| SZ3516 | 16 | 23.4 | 10 | 600 | 0.25 | 1.0 | 12.2 | 93 |
| SZ3518 | 18 | 20.8 | 12 | 650 | 0.25 | 1.0 | 13.7 | 83 |
| SZ3520 | 20 | 18.7 | 14 | 650 | 0.25 | 1.0 | 15.2 | 75 |
| SZ3522 | 22 | 17.0 | 17.5 | 650 | 0.25 | 1.0 | 16.7 | 68 |
| SZ3524 | 24 | 15.6 | 19 | 700 | 0.25 | 1.0 | 18.2 | 62 |
| SZ3527 | 27 | 13.9 | 23 | 700 | 0.25 | 1.0 | 20.6 | 55 |
| SZ3530 | 30 | 12.5 | 26 | 750 | 0.25 | 1.0 | 22.8 | 50 |
| SZ3533 | 33 | 11.4 | 33 | 800 | 0.25 | 1.0 | 25.1 | 45 |
| SZ3536 | 36 | 10.4 | 38 | 850 | 0.25 | 1.0 | 27.4 | 41 |
| SZ3539 | 39 | 9.6 | 45 | 900 | 0.25 | 1.0 | 29.7 | 38 |
| SZ3543 | 43 | 8.7 | 53 | 950 | 0.25 | 1.0 | 32.7 | 34 |
| SZ3547 | 47 | 8.0 | 67 | 1000 | 0.25 | 1.0 | 35.8 | 31 |
| SZ3551 | 51 | 7.3 | 70 | 1100 | 0.25 | 1.0 | 38.8 | 29 |
| SZ3556 | 56 | 6.7 | 86 | 1300 | 0.25 | 1.0 | 42.6 | 26 |
| SZ3562 | 62 | 6.0 | 100 | 1500 | 0.25 | 1.0 | 47.1 | 24 |
| SZ3568 | 68 | 5.5 | 120 | 1700 | 0.25 | 1.0 | 51.7 | 22 |
| SZ3575 | 75 | 5.0 | 140 | 2000 | 0.25 | 1.0 | 56.0 | 20 |
| SZ3582 | 82 | 4.6 | 160 | 2500 | 0.25 | 1.0 | 62.2 | 18 |
| SZ3591 | 91 | 4.1 | 200 | 3000 | 0.25 | 1.0 | 69.2 | 16 |
| SZ35B0 | 100 | 3.7 | 250 | 3100 | 0.25 | 1.0 | 76.0 | 15 |
| SZ35B1 | 110 | 3.4 | 300 | 4000 | 0.25 | 1.0 | 83.6 | 13 |
| SZ35B2 | 120 | 3.1 | 380 | 4500 | 0.25 | 1.0 | 91.2 | 12 |
| SZ35B3 | 130 | 2.9 | 450 | 5000 | 0.25 | 1.0 | 98.8 | 11 |
| SZ35B5 | 150 | 2.5 | 600 | 6000 | 0.25 | 1.0 | 114.0 | 10 |
| SZ35B6 | 160 | 2.3 | 700 | 6500 | 0.25 | 1.0 | 121.6 | 9.0 |
| SZ35B8 | 180 | 2.1 | 900 | 7000 | 0.25 | 1.0 | 136.8 | 8.0 |
| SZ35D0 | 200 | 1.9 | 1200 | 8000 | 0.25 | 1.0 | 152.0 | 7.0 |

Note :

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