

SZ655B - SZ65D0

SURFACE MOUNT SILICON ZENER DIODES

V_Z : 5.1 - 200 Volts
P_D : 5 Watts

FEATURES :

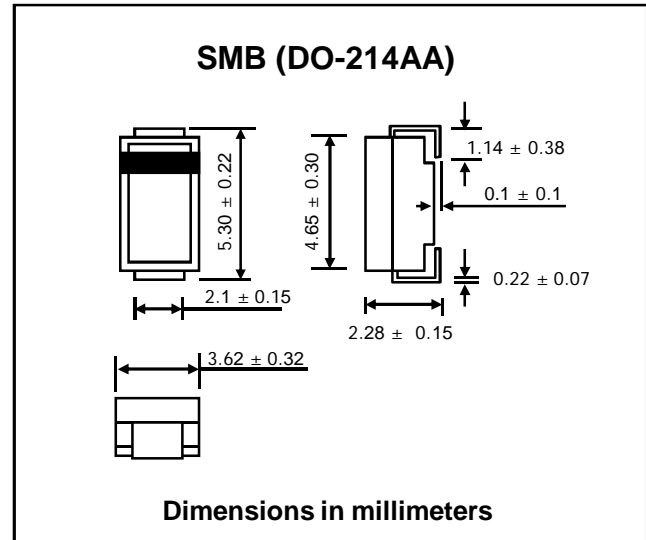
- * Complete Voltage Range 5.1 to 200 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Nonsensitive to ESD
- * Pb / RoHS Free

MECHANICAL DATA

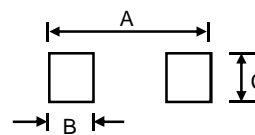
- * Case : SMB Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.108 gram

MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified



PAD LAYOUT

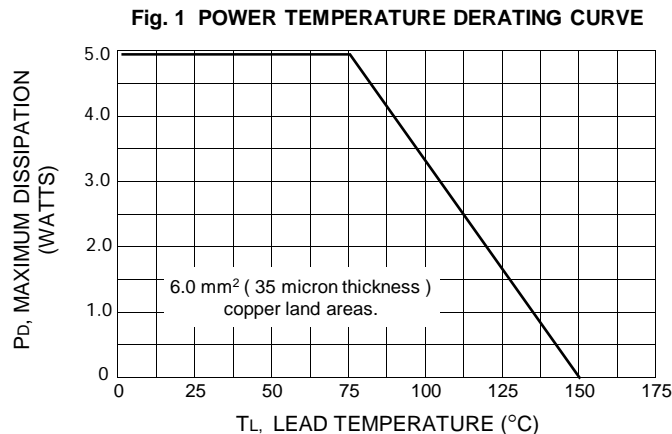


| | INC. | mm. |
|----------|-------|------|
| A | 0.260 | 6.60 |
| B | 0.085 | 2.16 |
| C | 0.110 | 2.79 |

| 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 |
| Operating Junction Temperature Range | T _J | - 55 to + 150 | °C |
| Storage Temperature Range | T _{STG} | - 55 to + 150 | °C |

Note :

(1) T_L = Lead temperature at 6.0 mm² (35 micron thickness) 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 | Maximum Surge Current | Maximum Temperature Co-efficient of V_{BR} |
|--------|-----------------------|----------|-------------------------|-------------------|----------|---------------------------------|----------|--------------------------|-----------------------|----------------------------------------------|
| | $V_Z @ I_{ZT}$ | I_{ZT} | $Z_{ZT} @ I_{ZT}$ | $Z_{ZK} @ I_{ZK}$ | I_{ZK} | $I_R @ V_R$ | I_{ZM} | I_{ZSM} | (% / °C) | |
| | (V) | (mA) | (Ω) | (Ω) | (mA) | (μ A) | (V) | (mA) | | (A) |
| SZ655B | 5.1 | 240 | 1.5 | 400 | 1.0 | 1.0 | 1.0 | 930 | 14.4 | 0.047 |
| SZ655G | 5.6 | 220 | 1.0 | 400 | 1.0 | 1.0 | 2.0 | 865 | 13.4 | 0.050 |
| SZ656A | 6.0 | 200 | 1.0 | 300 | 1.0 | 1.0 | 3.0 | 790 | 12.7 | 0.053 |
| SZ656C | 6.2 | 200 | 1.0 | 200 | 1.0 | 1.0 | 3.0 | 765 | 12.4 | 0.054 |
| SZ656I | 6.8 | 175 | 1.0 | 200 | 1.0 | 10 | 5.2 | 700 | 11.5 | 0.057 |
| SZ657F | 7.5 | 175 | 1.5 | 200 | 1.0 | 10 | 5.7 | 630 | 10.7 | 0.061 |
| SZ658C | 8.2 | 150 | 1.5 | 200 | 1.0 | 10 | 6.2 | 580 | 10.0 | 0.065 |
| SZ658H | 8.7 | 150 | 2.0 | 200 | 1.0 | 10 | 6.6 | 545 | 9.5 | 0.068 |
| SZ659B | 9.1 | 150 | 2.0 | 150 | 1.0 | 7.5 | 6.9 | 520 | 9.2 | 0.068 |
| SZ6510 | 10 | 125 | 2.0 | 125 | 1.0 | 5.0 | 7.6 | 475 | 8.6 | 0.073 |
| SZ6511 | 11 | 125 | 2.5 | 125 | 1.0 | 5.0 | 8.4 | 430 | 8.0 | 0.075 |
| SZ6512 | 12 | 100 | 2.5 | 125 | 1.0 | 2.0 | 9.1 | 395 | 7.5 | 0.078 |
| SZ6513 | 13 | 100 | 2.5 | 100 | 1.0 | 1.0 | 9.9 | 365 | 7.0 | 0.081 |
| SZ6514 | 14 | 100 | 2.5 | 75 | 1.0 | 1.0 | 10.6 | 340 | 6.7 | 0.082 |
| SZ6515 | 15 | 75 | 2.5 | 75 | 1.0 | 1.0 | 11.5 | 315 | 6.3 | 0.084 |
| SZ6516 | 16 | 75 | 2.5 | 75 | 1.0 | 1.0 | 12.2 | 295 | 6.0 | 0.086 |
| SZ6517 | 17 | 70 | 2.5 | 75 | 1.0 | 0.5 | 12.9 | 280 | 5.8 | 0.088 |
| SZ6518 | 18 | 65 | 2.5 | 75 | 1.0 | 0.5 | 13.7 | 265 | 5.5 | 0.088 |
| SZ6519 | 19 | 65 | 3.0 | 75 | 1.0 | 0.5 | 14.4 | 250 | 5.3 | 0.090 |
| SZ6520 | 20 | 65 | 3.0 | 75 | 1.0 | 0.5 | 15.2 | 237 | 5.1 | 0.090 |
| SZ6522 | 22 | 50 | 3.5 | 75 | 1.0 | 0.5 | 16.7 | 216 | 4.7 | 0.092 |
| SZ6524 | 24 | 50 | 3.5 | 100 | 1.0 | 0.5 | 18.2 | 198 | 4.4 | 0.094 |
| SZ6525 | 25 | 50 | 4.0 | 110 | 1.0 | 0.5 | 19.0 | 190 | 4.3 | 0.093 |
| SZ6527 | 27 | 50 | 5.0 | 120 | 1.0 | 0.5 | 20.6 | 176 | 4.1 | 0.096 |
| SZ6528 | 28 | 50 | 6.0 | 130 | 1.0 | 0.5 | 21.2 | 170 | 3.9 | 0.096 |
| SZ6530 | 30 | 40 | 8.0 | 140 | 1.0 | 0.5 | 22.8 | 158 | 3.7 | 0.097 |
| SZ6533 | 33 | 40 | 10 | 150 | 1.0 | 0.5 | 25.1 | 144 | 3.5 | 0.098 |
| SZ6536 | 36 | 30 | 11 | 160 | 1.0 | 0.5 | 27.4 | 132 | 3.3 | 0.099 |
| SZ6539 | 39 | 30 | 14 | 170 | 1.0 | 0.5 | 29.7 | 122 | 3.1 | 0.100 |
| SZ6543 | 43 | 30 | 20 | 190 | 1.0 | 0.5 | 32.7 | 110 | 2.8 | 0.101 |
| SZ6547 | 47 | 25 | 25 | 210 | 1.0 | 0.5 | 35.8 | 100 | 2.7 | 0.101 |
| SZ6551 | 51 | 25 | 27 | 230 | 1.0 | 0.5 | 38.8 | 93.0 | 2.5 | 0.102 |
| SZ6556 | 56 | 20 | 35 | 280 | 1.0 | 0.5 | 42.6 | 86.0 | 2.3 | 0.103 |
| SZ6560 | 60 | 20 | 40 | 350 | 1.0 | 0.5 | 45.5 | 79.0 | 2.2 | 0.104 |
| SZ6562 | 62 | 20 | 42 | 400 | 1.0 | 0.5 | 47.1 | 76.0 | 2.1 | 0.104 |
| SZ6568 | 68 | 20 | 44 | 500 | 1.0 | 0.5 | 51.7 | 70.0 | 2.0 | 0.104 |
| SZ6575 | 75 | 20 | 45 | 620 | 1.0 | 0.5 | 56.0 | 63.0 | 1.9 | 0.105 |
| SZ6582 | 82 | 15 | 65 | 720 | 1.0 | 0.5 | 62.2 | 58.0 | 1.8 | 0.105 |
| SZ6587 | 87 | 15 | 75 | 760 | 1.0 | 0.5 | 66.0 | 54.5 | 1.7 | 0.105 |
| SZ6591 | 91 | 15 | 75 | 760 | 1.0 | 0.5 | 69.2 | 52.5 | 1.6 | 0.106 |
| SZ65B0 | 100 | 12 | 90 | 800 | 1.0 | 0.5 | 76.0 | 47.5 | 1.5 | 0.106 |
| SZ65B1 | 110 | 12 | 125 | 1000 | 1.0 | 0.5 | 83.6 | 43.0 | 1.4 | 0.107 |
| SZ65B2 | 120 | 10 | 170 | 1150 | 1.0 | 0.5 | 91.2 | 39.5 | 1.3 | 0.107 |
| SZ65B3 | 130 | 10 | 190 | 1250 | 1.0 | 0.5 | 98.8 | 36.6 | 1.2 | 0.107 |
| SZ65B4 | 140 | 8.0 | 230 | 1500 | 1.0 | 0.5 | 106 | 34.0 | 1.2 | 0.108 |
| SZ65B5 | 150 | 8.0 | 330 | 1500 | 1.0 | 0.5 | 114 | 31.6 | 1.1 | 0.108 |
| SZ65B6 | 160 | 8.0 | 350 | 1650 | 1.0 | 0.5 | 122 | 29.4 | 1.1 | 0.108 |
| SZ65B7 | 170 | 8.0 | 380 | 1750 | 1.0 | 0.5 | 129 | 28.0 | 1.0 | 0.108 |
| SZ65B8 | 180 | 5.0 | 430 | 1750 | 1.0 | 0.5 | 137 | 26.4 | 1.0 | 0.108 |
| SZ65B9 | 190 | 5.0 | 450 | 1850 | 1.0 | 0.5 | 144 | 25.0 | 0.9 | 0.108 |
| SZ65D0 | 200 | 5.0 | 480 | 1850 | 1.0 | 0.5 | 152 | 23.6 | 0.9 | 0.108 |

Notes:

- (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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>EIC](#)