

# Zener Diodes

S  
M  
D

## ●Line Up

Maximum power dissipation (Pd) is 200mw to 1000mw (1w) .

Selection among these serieses with various packages assures to match specific application and requirement.

| Series         | Package | P (mW) | Voltage range (V) | Features                           |
|----------------|---------|--------|-------------------|------------------------------------|
| DTZ Series     | DSM     | 200    | 2.0~36            | 2-pin mini molded                  |
| ☆PTZ Series    | PSM     | 1000   | 2.0~43            | 2-pin power molded, P=1W           |
| RLZ Series     | LL-34   | 400    | 2.0~56            | Glass sealed                       |
| RLZ J Series   | LL-34   | 400    | 3.6~24            | Glass sealed                       |
| RLZ5000 Series | LL-34   | 400    | 2.4~24            | JEDEC standard                     |
| UMZ8.2T        | UMD     | 200    | 7.76~8.64         | Cathode common, Contains 2 devices |
| STZ6.8T        | SMD     | 200    | 6.47~7.14         | Cathode common, Contains 2 devices |

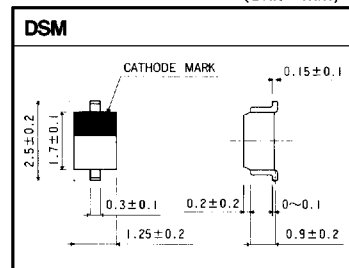
Note : ☆Under development

## ●DTZ Series (Pd=200mW Package : DSM)

| Part No. | Vz (V)      |             |             | Iz (mA) | Zz (Ω) Max. | Iz (mA) | Zzk (Ω) Max. | IR (μA) Max. | VR (V) |     |
|----------|-------------|-------------|-------------|---------|-------------|---------|--------------|--------------|--------|-----|
|          | Ranking     |             |             |         |             |         |              |              |        |     |
|          | A           | B           | C           |         |             |         |              |              |        |     |
| DTZ2.0   | 1.880~2.100 | 2.020~2.200 | -           | 5       | 100         | 5       | 1000         | 0.5          | 120    | 0.5 |
| DTZ2.2   | 2.120~2.300 | 2.220~2.410 | -           | 5       | 100         | 5       | 1000         | 0.5          | 120    | 0.7 |
| DTZ2.4   | 2.330~2.520 | 2.430~2.630 | -           | 5       | 100         | 5       | 1000         | 0.5          | 120    | 1.0 |
| DTZ2.7   | 2.540~2.750 | 2.690~2.910 | -           | 5       | 110         | 5       | 1000         | 0.5          | 100    | 1.0 |
| DTZ3.0   | 2.850~3.070 | 3.010~3.220 | -           | 5       | 120         | 5       | 1000         | 0.5          | 50     | 1.0 |
| DTZ3.3   | 3.160~3.380 | 3.320~3.530 | -           | 5       | 120         | 5       | 1000         | 0.5          | 20     | 1.0 |
| DTZ3.6   | 3.455~3.695 | 3.600~3.845 | -           | 5       | 100         | 5       | 1000         | 1            | 10     | 1.0 |
| DTZ3.9   | 3.740~4.010 | 3.890~4.160 | -           | 5       | 100         | 5       | 1000         | 1            | 5      | 1.0 |
| DTZ4.3   | 4.04~4.29   | 4.17~4.43   | 4.30~4.57   | 5       | 100         | 5       | 1000         | 1            | 5      | 1.0 |
| DTZ4.7   | 4.42~4.61   | 4.55~4.75   | 4.69~4.90   | 5       | 100         | 5       | 800          | 0.5          | 2      | 1.0 |
| DTZ5.1   | 4.84~5.04   | 4.98~5.20   | 5.14~5.37   | 5       | 80          | 5       | 500          | 0.5          | 2      | 1.5 |
| DTZ5.6   | 5.31~5.55   | 5.49~5.73   | 5.67~5.92   | 5       | 60          | 5       | 200          | 0.5          | 1      | 2.5 |
| DTZ6.2   | 5.86~6.12   | 6.06~6.33   | 6.26~6.53   | 5       | 60          | 5       | 100          | 0.5          | 1      | 3.0 |
| DTZ6.8   | 6.47~6.73   | 6.65~6.93   | 6.86~7.14   | 5       | 40          | 5       | 60           | 0.5          | 0.5    | 3.5 |
| DTZ7.5   | 7.06~7.36   | 7.28~7.60   | 7.52~7.84   | 5       | 30          | 5       | 60           | 0.5          | 0.5    | 4.0 |
| DTZ8.2   | 7.76~8.10   | 8.02~8.36   | 8.28~8.64   | 5       | 30          | 5       | 60           | 0.5          | 0.5    | 5.0 |
| DTZ9.1   | 8.56~8.93   | 8.85~9.23   | 9.15~9.55   | 5       | 30          | 5       | 60           | 0.5          | 0.5    | 6.0 |
| DTZ10    | 9.45~9.87   | 9.77~10.21  | 10.11~10.55 | 5       | 30          | 5       | 60           | 0.5          | 0.1    | 7.0 |
| DTZ11    | 10.44~10.88 | 10.76~11.22 | 11.10~11.56 | 5       | 30          | 5       | 60           | 0.5          | 0.1    | 8.0 |
| DTZ12    | 11.42~11.90 | 11.74~12.24 | 12.08~12.60 | 5       | 30          | 5       | 80           | 0.5          | 0.1    | 9.0 |
| DTZ13    | 12.47~13.03 | 12.91~13.49 | 13.37~13.96 | 5       | 37          | 5       | 80           | 0.5          | 0.1    | 10  |
| DTZ15    | 13.84~14.46 | 14.34~14.98 | 14.85~15.52 | 5       | 42          | 5       | 80           | 0.5          | 0.1    | 11  |
| DTZ16    | 15.37~16.01 | 15.85~16.51 | 16.35~17.09 | 5       | 50          | 5       | 80           | 0.5          | 0.1    | 12  |
| DTZ18    | 16.94~17.70 | 17.56~18.35 | 18.21~19.03 | 5       | 65          | 5       | 80           | 0.5          | 0.1    | 13  |
| DTZ20    | 18.86~19.70 | 19.52~20.39 | 20.21~21.08 | 5       | 85          | 5       | 100          | 0.5          | 0.1    | 15  |
| DTZ22    | 20.88~21.77 | 21.54~22.47 | 22.23~23.17 | 5       | 100         | 5       | 100          | 0.5          | 0.1    | 17  |
| DTZ24    | 22.93~23.96 | 23.72~24.78 | 24.54~25.57 | 5       | 120         | 5       | 120          | 0.5          | 0.1    | 19  |
| DTZ27    | 25.20~26.50 | 26.19~27.53 | 27.21~28.61 | 5       | 150         | 5       | 150          | 0.5          | 0.1    | 21  |
| DTZ30    | 28.22~29.66 | 29.19~30.69 | 30.20~31.74 | 5       | 200         | 5       | 200          | 0.5          | 0.1    | 23  |
| DTZ33    | 31.18~32.78 | 32.15~33.79 | 33.13~34.83 | 5       | 250         | 5       | 250          | 0.5          | 0.1    | 25  |
| DTZ36    | 34.12~35.86 | 35.07~36.87 | 36.07~37.91 | 5       | 300         | 5       | 300          | 0.5          | 0.1    | 27  |

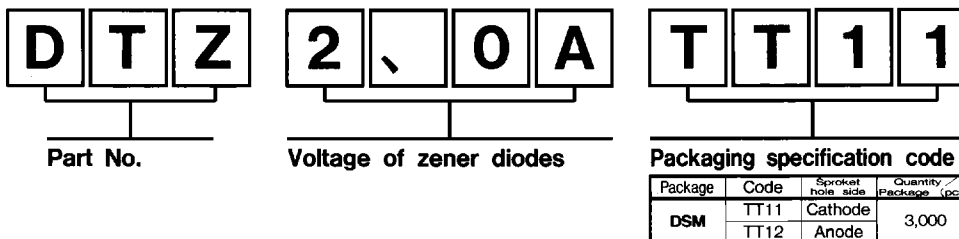
- Notes : 1. Zener voltage (Vz) is measured 40ms after applying the current.  
 2. When ordering, specify the rank of the diodes. Otherwise, the diodes of rank A, B or C are supplied.

(Unit : mm)



## ●Product Designation (Ex.)

When ordering, specify Part No. packaging Code and Zener voltage.



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