

HZS-L Series

P_D : 400 mW

FEATURES :

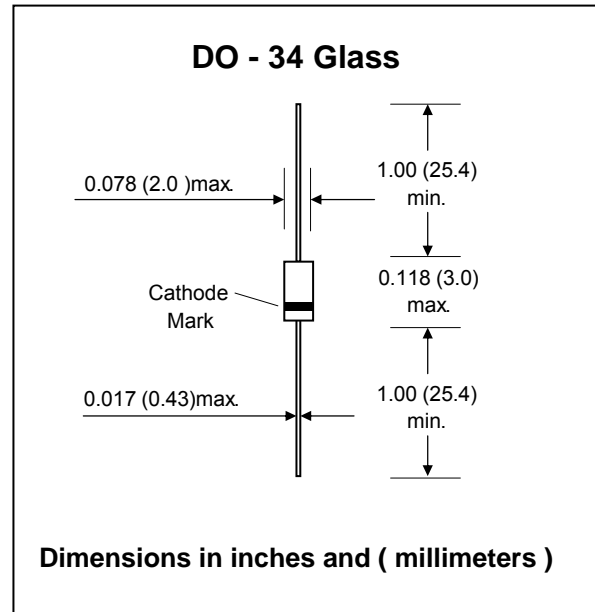
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Pb / RoHS Free

MECHANICAL DATA

Case: DO-34 Glass Case

Weight: approx. 0.093g

ZENER DIODES

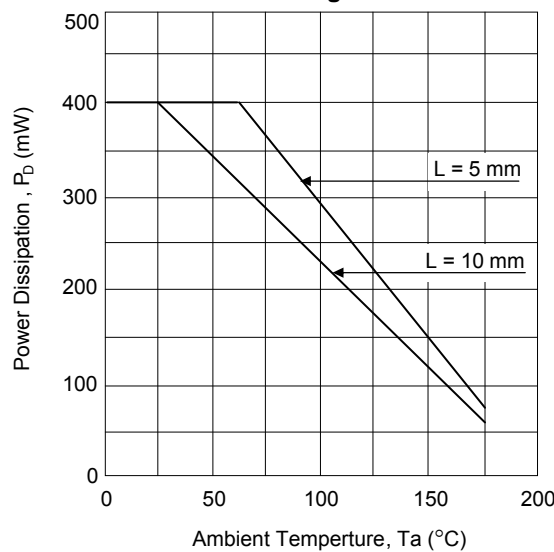


MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

| Parameter | Symbol | Value | Unit |
|---------------------------|-----------|---------------|------|
| Forward Rectifier Current | I_F | 150 | mA |
| Power Dissipation | P_D | 400 | mW |
| Junction Temperature | T_J | 200 | °C |
| Storage Temperature Range | T_{stg} | - 55 to + 175 | °C |

Derating Curve



ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

| Type | Grade | Zener Voltage | | Test Current | Maximum Dynamic Resistance | | Maximum Reverse Current | | Typical Temperature Coefficient * | |
|--------|-------|--------------------|------|--------------|---------------------------------|---------------------------------|-------------------------|----------------|-----------------------------------|------|
| | | V _Z (V) | | | r _d @ I _Z | I _R @ V _R | γ _Z (mV/ °C) | I _Z | | |
| | | min. | max. | (mA) | | | | | (Ω) | (mA) |
| HVS6L | A1 | 5.2 | 5.5 | 0.5 | 150 | 0.5 | 1 | 2.0 | 2.0 | 0.5 |
| | A2 | 5.3 | 5.6 | | | | | | | |
| | A3 | 5.4 | 5.7 | | | | | | | |
| | B1 | 5.5 | 5.8 | | 80 | | | | | |
| | B2 | 5.6 | 5.9 | | | | | | | |
| | B3 | 5.7 | 6.0 | | 60 | | | | | |
| | C1 | 5.8 | 6.1 | | | | | | | |
| | C2 | 6.0 | 6.3 | | | | | | | |
| C3 | 6.1 | 6.4 | | | | | | | | |
| HVS7L | A1 | 6.3 | 6.6 | 0.5 | 60 | 0.5 | 1 | 3.5 | 3.0 | 0.5 |
| | A2 | 6.4 | 6.7 | | | | | | | |
| | A3 | 6.6 | 6.9 | | | | | | | |
| | B1 | 6.7 | 7.0 | | | | | | | |
| | B2 | 6.9 | 7.2 | | | | | | | |
| | B3 | 7.0 | 7.3 | | | | | | | |
| | C1 | 7.2 | 7.6 | | | | | | | |
| | C2 | 7.3 | 7.7 | | | | | | | |
| C3 | 7.5 | 7.9 | | | | | | | | |
| HVS9L | A1 | 7.7 | 8.1 | 0.5 | 60 | 0.5 | 1 | 6.0 | 7.0 | 0.5 |
| | A2 | 7.9 | 8.3 | | | | | | | |
| | A3 | 8.1 | 8.5 | | | | | | | |
| | B1 | 8.3 | 8.7 | | | | | | | |
| | B2 | 8.5 | 8.9 | | | | | | | |
| | B3 | 8.7 | 9.1 | | | | | | | |
| | C1 | 8.9 | 9.3 | | | | | | | |
| | C2 | 9.1 | 9.5 | | | | | | | |
| C3 | 9.3 | 9.7 | | | | | | | | |
| HVS11L | A1 | 9.5 | 9.9 | 0.5 | 80 | 0.5 | 1 | 8.0 | 1.0 | 2.0 |
| | A2 | 9.7 | 10.1 | | | | | | | |
| | A3 | 9.9 | 10.3 | | | | | | | |
| | B1 | 10.2 | 10.6 | | | | | | | |
| | B2 | 10.4 | 10.8 | | | | | | | |
| | B3 | 10.7 | 11.1 | | | | | | | |
| | C1 | 10.9 | 11.3 | | | | | | | |
| | C2 | 11.1 | 11.6 | | | | | | | |
| C3 | 11.4 | 11.9 | | | | | | | | |
| HVS12L | A1 | 11.6 | 12.1 | 0.5 | 80 | 0.5 | 1 | 10.5 | 10.0 | 0.5 |
| | A2 | 11.9 | 12.4 | | | | | | | |
| | A3 | 12.2 | 12.7 | | | | | | | |
| | B1 | 12.4 | 12.9 | | | | | | | |
| | B2 | 12.6 | 13.1 | | | | | | | |
| | B3 | 12.9 | 13.4 | | | | | | | |
| | C1 | 13.2 | 13.7 | | | | | | | |
| | C2 | 13.5 | 14.0 | | | | | | | |
| C3 | 13.8 | 14.3 | | | | | | | | |

* Referent only

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

| Type | Grade | Zener Voltage | | Test Current | Maximum Dynamic Resistance | | Maximum Reverse Current | | Typical Temperature Coefficient * | |
|--------|-------|---------------------------------------|------|--------------|---------------------------------|---------------------------------|-------------------------|----------------|-----------------------------------|------|
| | | V _Z (V) at I _{ZT} | | | r _d @ I _Z | I _R @ V _R | γ _Z (mV/ °C) | I _Z | | |
| | | min. | max. | (mA) | | | | | (Ω) | (mA) |
| HZS15L | 1 | 14.1 | 14.7 | 0.5 | 80 | 0.5 | 1 | 13.0 | 12.0 | 0.5 |
| | 2 | 14.5 | 15.1 | | | | | | | |
| | 3 | 14.9 | 15.5 | | | | | | | |
| HZS16L | 1 | 15.3 | 15.9 | 0.5 | 80 | 0.5 | 1 | 14.0 | 13.0 | 0.5 |
| | 2 | 15.7 | 16.5 | | | | | | | |
| | 3 | 16.3 | 17.1 | | | | | | | |
| HZS18L | 1 | 16.9 | 17.7 | 0.5 | 80 | 0.5 | 1 | 15.0 | 16.0 | 0.5 |
| | 2 | 17.5 | 18.3 | | | | | | | |
| | 3 | 18.1 | 19.0 | | | | | | | |
| HZS20L | 1 | 18.8 | 19.7 | 0.5 | 100 | 0.5 | 1 | 18.0 | 18.0 | 0.5 |
| | 2 | 19.5 | 20.4 | | | | | | | |
| | 3 | 20.2 | 21.1 | | | | | | | |
| HZS22L | 1 | 20.9 | 21.9 | 0.5 | 100 | 0.5 | 1 | 20.0 | 20.0 | 0.5 |
| | 2 | 21.6 | 22.6 | | | | | | | |
| | 3 | 22.3 | 23.3 | | | | | | | |
| HZS24L | 1 | 22.9 | 24.0 | 0.5 | 120 | 0.5 | 1 | 22.0 | 23.0 | 0.5 |
| | 2 | 23.6 | 24.7 | | | | | | | |
| | 3 | 24.3 | 25.5 | | | | | | | |
| HZS27L | 1 | 25.2 | 26.6 | 0.5 | 150 | 0.5 | 1 | 24.0 | 26.0 | 0.5 |
| | 2 | 26.2 | 27.6 | | | | | | | |
| | 3 | 27.2 | 28.6 | | | | | | | |
| HZS30L | 1 | 28.2 | 29.6 | 0.5 | 200 | 0.5 | 1 | 27.0 | 29.0 | 0.5 |
| | 2 | 29.2 | 30.6 | | | | | | | |
| | 3 | 30.2 | 31.6 | | | | | | | |
| HZS33L | 1 | 31.2 | 32.6 | 0.5 | 250 | 0.5 | 1 | 30.0 | 32.0 | 0.5 |
| | 2 | 32.2 | 33.6 | | | | | | | |
| | 3 | 33.2 | 34.6 | | | | | | | |
| HZS36L | 1 | 34.2 | 35.7 | 0.5 | 300 | 0.5 | 1 | 33.0 | 36.0 | 0.5 |
| | 2 | 35.3 | 36.8 | | | | | | | |
| | 3 | 36.4 | 38.0 | | | | | | | |

* Referent only

Note:

Type No show as follows, HZS6A1L, HZS6A2L HZS36-3L