

High voltage silicon diodes

Reverse Voltage – 12kV

Forward Current – 500mA

FEATURES

◆High reliability

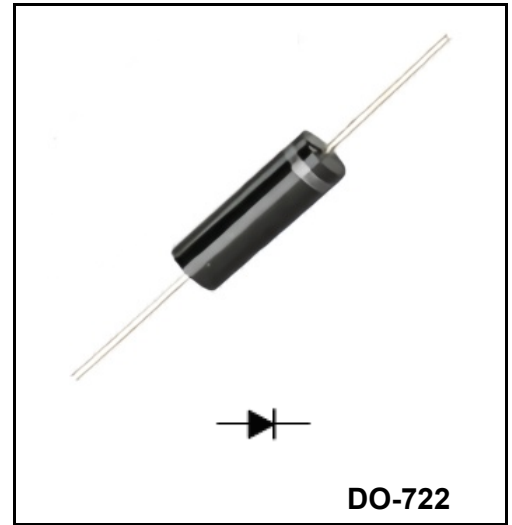
MECHANICAL DATA

◆Case: Molded Plastic Body

◆Epoxy meets UL 94V-0 flammability rating

◆Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.

◆Polarity: Color band denotes cathode end



Marking Code

| | |
|-------|-----------|
| HVM12 | YFW HVM12 |
|-------|-----------|

Maximum rating (Ta=25°C unless otherwise noted)

| Parameter | | Symbol | HVM12 | Unit |
|---|---|-------------|-------------|------------------|
| Repetitive peak reverse voltage | | V_{RRM} | 12 | KV |
| Average forward current | 60Hz half-sine wave, Resistance load, $T_a \leq 60^\circ\text{C}$ | $I_{F(AV)}$ | 500 | mA |
| Surge(Non-repetitive)forward current | 60Hz half-sine wave, 1cycle, $T_a = 25^\circ\text{C}$ | I_{FSM} | 30 | A |
| Reverse surge current | $W_p = 1\text{ms}$, Rectangular-wave, One-shot, $T_a = 25^\circ\text{C}$ | I_{RSM} | 100 | mA |
| Peak forward voltage | $I_{FM} = 500\text{mA}$ | V_{FM} | ≤ 14 | V |
| Peak reverse current $V_{RM} = V_{RRM}$ | | I_{RRM1} | ≤ 5 | μA |
| Avalanche breakdown voltage | $I_R = 100\mu\text{A}$ | $V_{(BR)}$ | ≥ 12.5 | KV |
| Storage Temperature Range | | T_{stg} | -40 ~ +130 | $^\circ\text{C}$ |
| Virtual junction temperature | | $T_{(vj)}$ | 130 | $^\circ\text{C}$ |

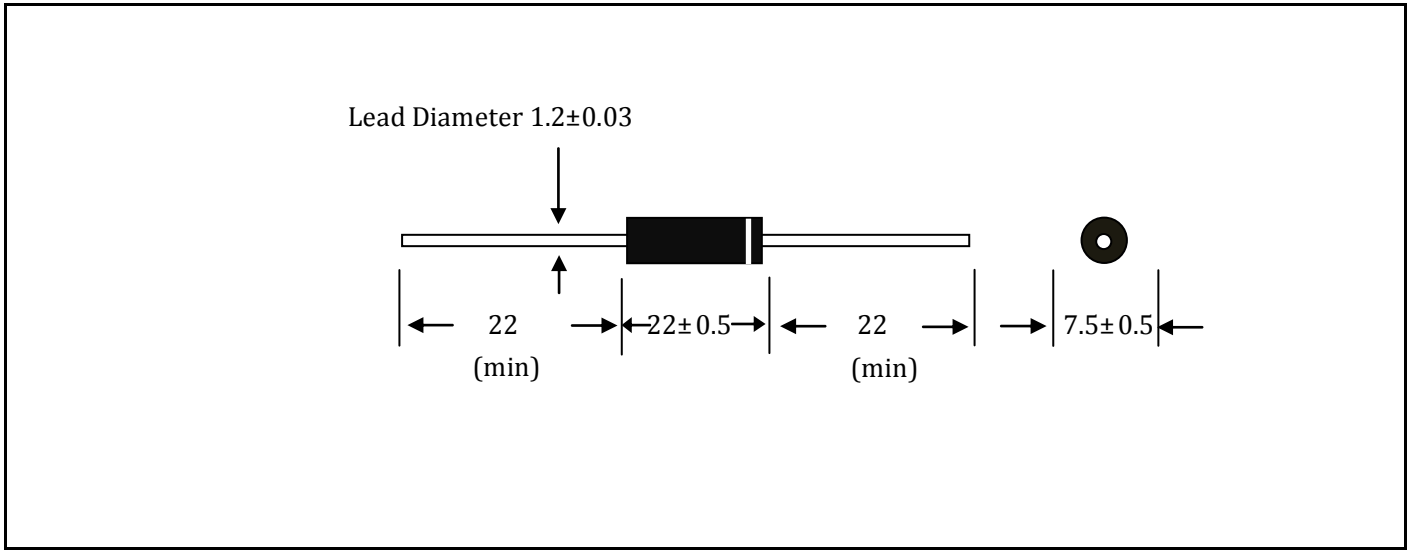
Notes :Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm
Wind-cooled velocity is more than 0.5m/s.

Ordering information

| Package | Packing Description | Packing Quantity |
|---------|---------------------|--------------------------------------|
| DO-722 | bulk | 100PCS/Bag 500PCS/Box 4000PCS/Carton |

Package Dimensions(Millimeter(mm))

DO-722



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