

High voltage silicon diodes for micro-wave oven

Reverse Voltage – 20kV

Forward Current –500mA

FEATURES

◆High reliability

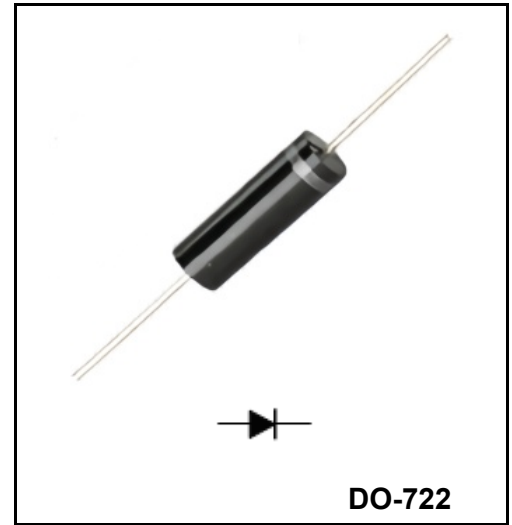
MECHANICAL DATA

◆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



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

| Parameter | | Symbol | YFW-20 | Unit |
|---------------------------------------|---|-------------|------------|------|
| Repetitive peak reverse voltage | | V_{RRM} | 20 | KV |
| Average forward current | 60Hz half-sine wave, Resistance load, Ta≤60°C | $I_{F(AV)}$ | 500 | mA |
| Surge(Non-repetitive)forward current | 60Hz half-sine wave, 1cycle, Ta=25°C | I_{FSM} | 30 | A |
| Reverse surge current | Wp=1ms, Rectangular-wave, One-shot, Ta=25°C | I_{RSM} | 150 | mA |
| Peak forward voltage | $I_{FM}=500mA$ | V_{FM} | ≤28 | V |
| Peak reverse current $V_{RM}=V_{RRM}$ | | I_{RRM1} | ≤10 | μA |
| Avalanche breakdown voltage | $I_R=100uA$ | $V_{(BR)}$ | ≥20.5 | KV |
| Reverse recovery time | $I_F=I_R=100mA, 90\%$ recovery point | t_{rr} | 0.1 | us |
| Storage Temperature Range | | T_{stg} | -40 ~ +130 | °C |
| Virtual junction temperature | | $T_{(vj)}$ | 150 | °C |

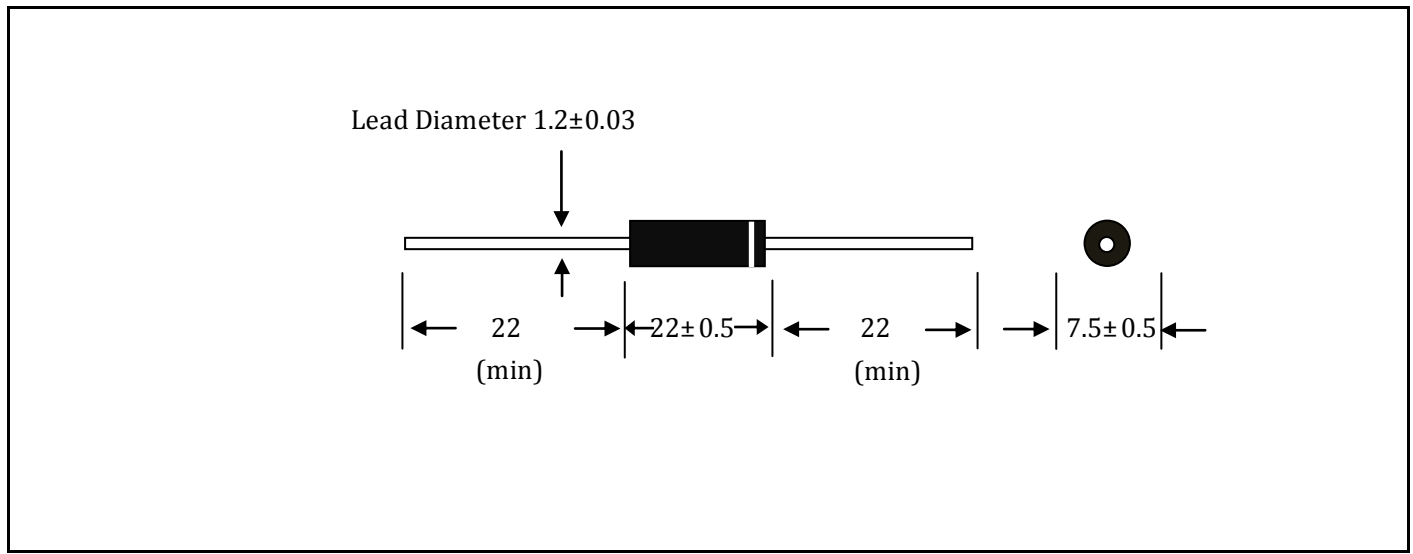
Notes :Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm
Wind-cooled velocity is more than 0.5m/s.

Ordering information

| Package | Packing Description | Packing Quantity |
|---------|---------------------|---------------------------------|
| DO-722 | bulk | 500PCS/Inner Bag 5000PCS/Carton |

Package Dimensions(Millimeter(mm))

DO-722



Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.