

High Voltage Silicon Diodes

Reverse Voltage - 8kv

Forward Current - 500mA

Features

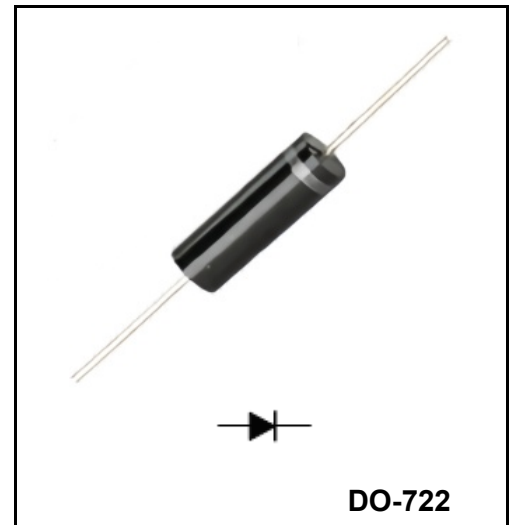
◆High reliability

Applications

◆Rectification for high voltage power supply of magnetron in Micro wave oven and others

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 JESD201 class 1A whisker test.
- ◆Polarity: Color band denotes cathode end



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

Parameter		Symbol	YFWH-08	Unit
Repetitive peak reverse voltage		V_{RRM}	8	kV
Average forward current	60Hz half-sine wave, Resistance load, $T_a \leq 60^\circ\text{C}$	$I_{F(AV)}$	500	mA
Forward surge current	60Hz half-sine wave, 1cycle, $T_a = 25^\circ\text{C}$	I_{FSM}	50	A
Reverse surge current	$W_p = 1\text{ms}$, Rectangular-wave, One-shot, $T_a = 25^\circ\text{C}$	I_{RSM}	150	mA
Peak forward voltage	$I_{FM} = 500\text{mA}$	V_{FM}	≤ 12	V
Peak reverse current	$V_{RM} = V_{RRM}$	I_{RRM1}	≤ 10	μA
Avalanche breakdown voltage	$I_R = 100\mu\text{A}$	V_{BR}	≥ 8.5	kV
Reverse recovery time	$I_F = I_R = 500\text{mA}$, 90% recovery point	t_{rr}	0.04	us
Virtual junction temperature		$T_{(vj)}$	150	$^\circ\text{C}$
Storage temperature		T_{stg}	-40 ~ +130	$^\circ\text{C}$

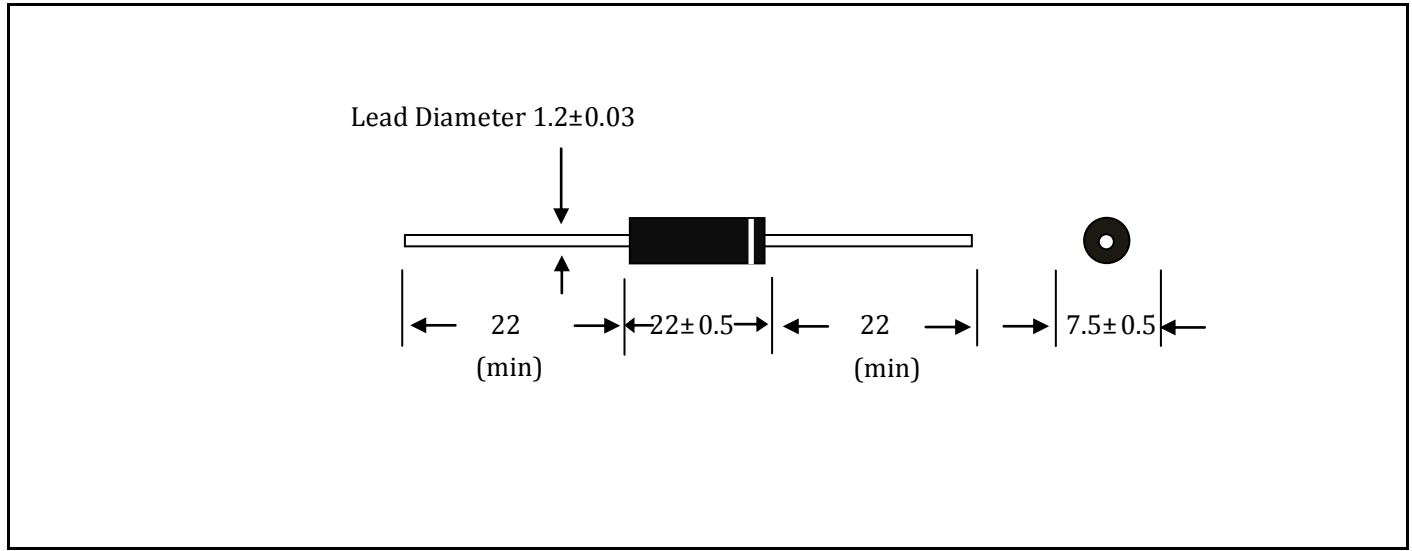
Notes: Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm Wind-cooled velocity is more than 0.5m/s

Ordering information

Package	Packing Description	Packing Quantity
DO-722	bulk	500PCS/Inner Bag 4000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-722



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