

High Voltage Silicon Diodes for Micro-wave oven

Reverse Voltage – 12KV

Forward Current –500mA

FEATURES

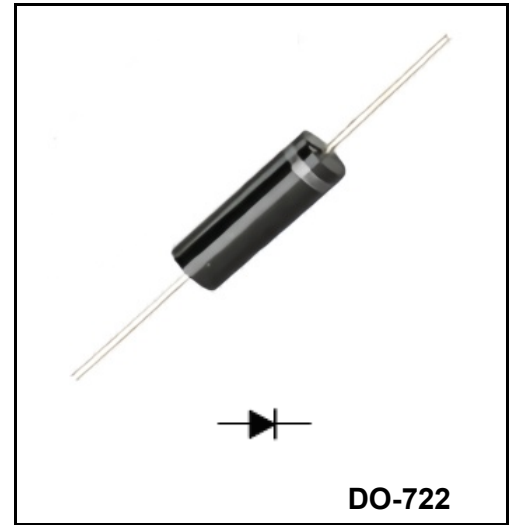
◆ High reliability

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-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ◆ Polarity: Color band denotes cathode end



Marking Code	
CL04-12	YFW CL04-12

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

Parameter		Symbol	CL04-12	Unit
Repetitive peak reverse voltage		V_{RRM}	12	kV
Average forward current	60Hz half-sine wave, Resistance load, Ta≤60°C	$I_{F(AV)}$	500	mA
Forward surge current	60Hz half-sine wave, 1cycle, Ta=25°C	I_{FSM}	60	A
Reverse surge current	Wp=1ms, Rectangular-wave, One-shot, Ta=25°C	I_{RSM}	100	mA
Peak forward voltage	$I_{FM}=450mA$	V_{FM}	≤12	V
Peak reverse current	$V_{RM}=V_{RRM}$	I_{RRM1}	≤5	μA
Avalanche breakdown voltage	$I_R=100μA$	$V_{(BR)}$	≥16.5	kV
Virtual junction temperature		$T_{(vj)}$	130	°C
Storage temperature		T_{stg}	-40 ~ +130	°C

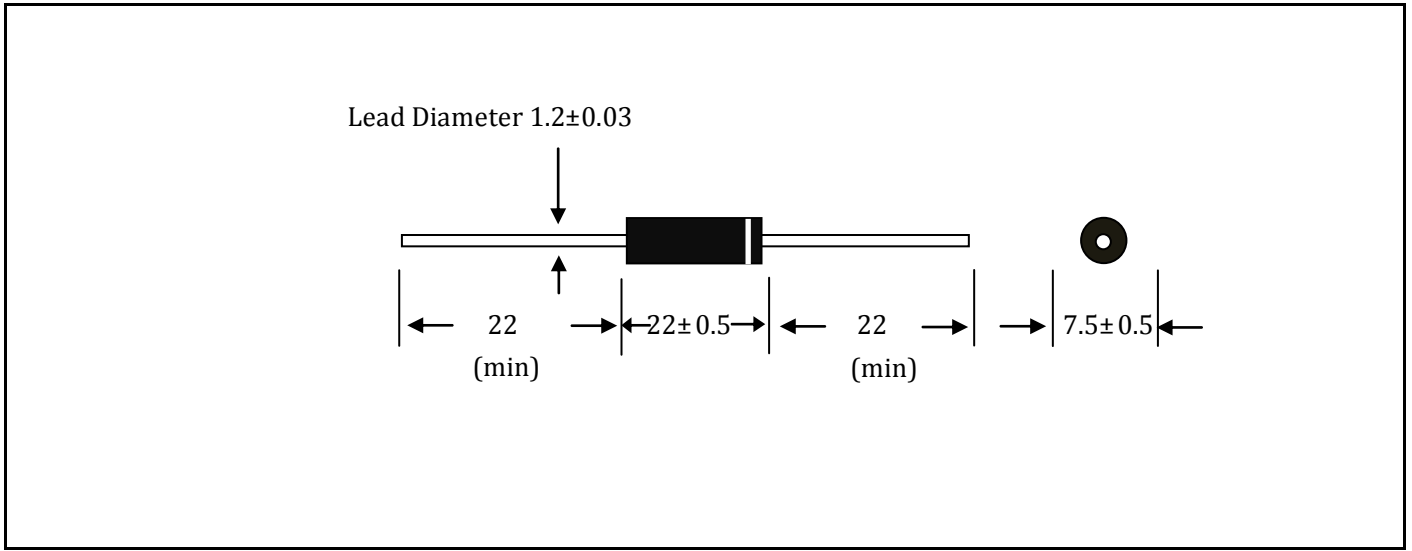
Notes: Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm Wind-cooled velocity is more than 0.5m/s

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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