

# 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

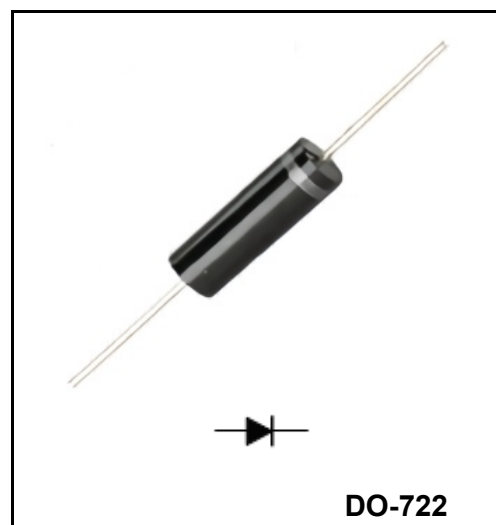
## MECHANICAL DATA

♦ 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

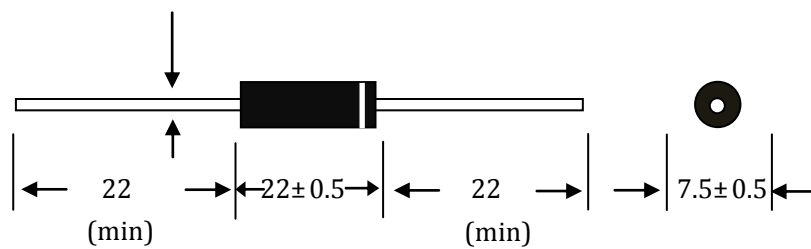
### Ordering information

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

### Package Dimensions(Millimeter(mm))

#### DO-722

Lead Diameter  $1.2 \pm 0.03$



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