

High voltage silicon diodes for micro-wave oven

Reverse Voltage – 12kV

Forward Current –450mA

FEATURES

◆High reliability

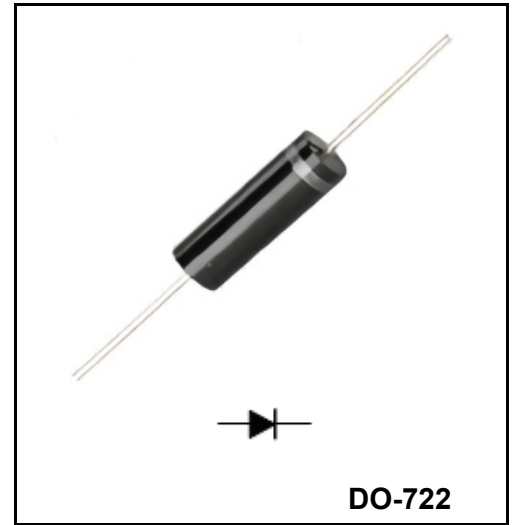
MECHANICAL DATA

◆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	
2CL4512H	YFW 2CL4512H

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

Parameter		Symbol	2CL4512H	Unit
Repetitive peak reverse voltage		V_{RRM}	12	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta≤60°C	$I_{F(AV)}$	450	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1 cycle, 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	$I_R=100uA$	$V_{(BR)}$	≥16.5	KV
Storage Temperature Range		T_{stg}	-40 ~ +130	°C
Virtual junction temperature		$T_{(vj)}$	130	°C

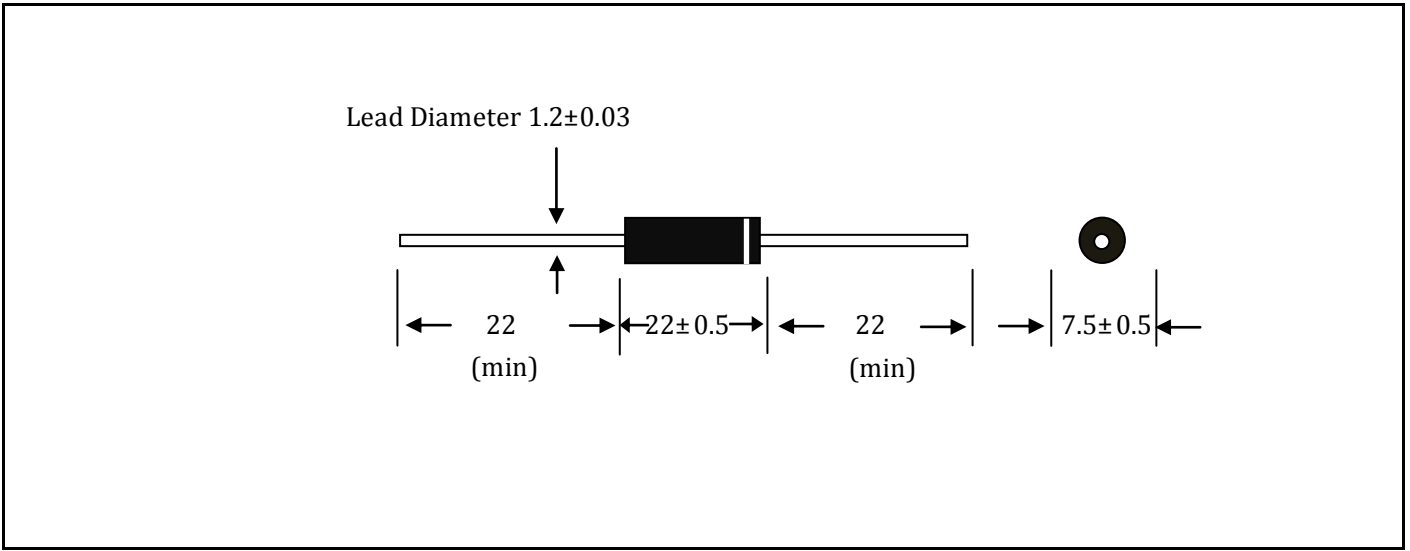
Notes :Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm
Wind-cooled velocity is more than 0.5m/s.

Ordering information

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

Package Dimensions(Millimeter(mm))

DO-722



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.