

High voltage silicon diodes for micro-wave oven

Reverse Voltage – 12kV

Forward Current –450mA

**FEATURES**

◆High reliability

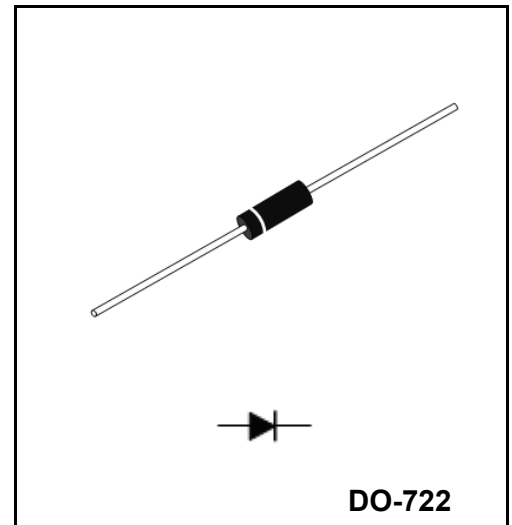
**MECHANICAL DATA**

◆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

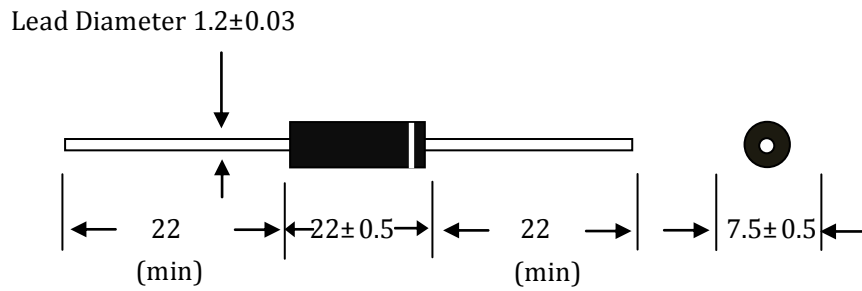


**Maximum rating (Ta=25°C unless otherwise noted)**

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, 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	$I_R=100\mu A$	$V_{(BR)}$	≥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.

Package outline dimensions



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-722	BOX	500	EIA-481-1