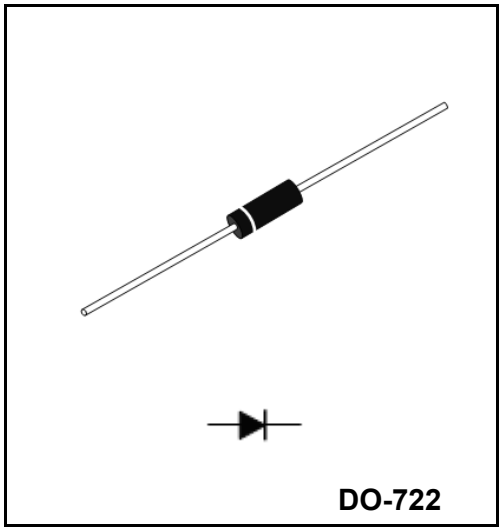
High voltage silicon diodes for micro-wave oven

Reverse Voltage – 9kV

Forward Current –450mA



FEATURES

- High reliability

Pb lead-free ROHS

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

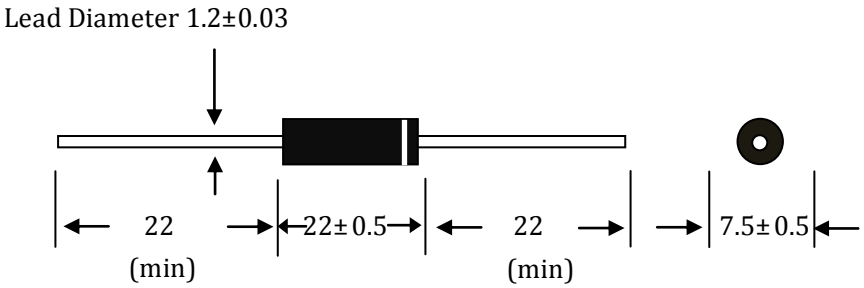
Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	2CL4509	Unit
Repetitive peak reverse voltage		V_{RRM}	9	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta≤60°C	$IF_{(AV)}$	450	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave,1cycle,T_a=25°C	I_{FSM}	30	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}	≤10	V
Peak reverse current $V_{RM}=V_{RRM}$		I_{RRM1}	≤5	μA
Avalanche breakdown voltage	I_R=100uA	$V_{(BR)}$	≥9.5	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.

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Package outline dimensions



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-722	BOX	5000	EIA-481-1

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