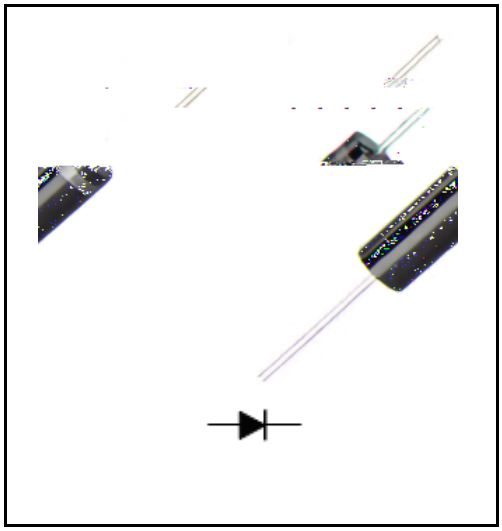
High voltage silicon diodes for micro-wave oven

Reverse Voltage – 10kV

Forward Current –450mA



FEATURES

Supersmall size
High reliability
High speed switching

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

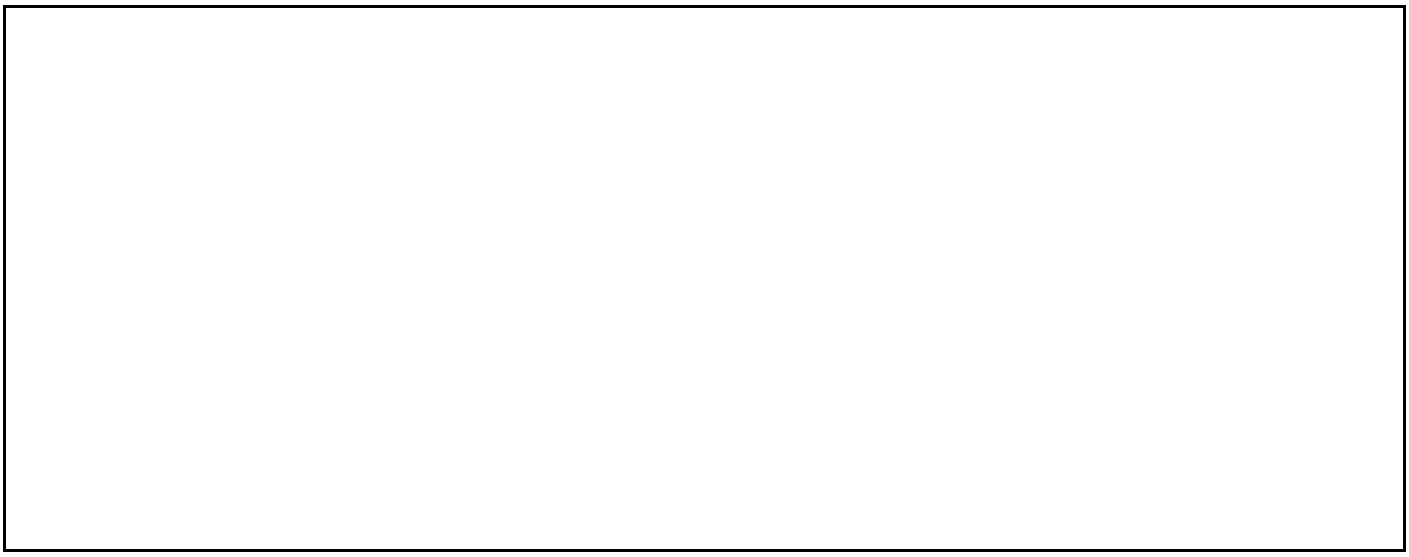
Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	2CL4510	Unit
Repetitive peak reverse voltage		V_{RRM}	10	KV
Average forward current	60H_Z half-sine wave, Resistance load, Ta=25°C	$IF_{(AV)}$	450	mA
Surge(Non-repetitive)forward current	60H_Z half-sine wave,1cycle,T_a=25°C	I_{FSM}	30	A
Peak forward voltage	I_{FM}=200mA	V_{FM}	10	V
Peak reverse current $V_{RM}=V_{RRM}$		I_{RRM}	5	μA
Avalanche breakdown voltage	I_R=100uA	$V_{(BR)}$	12	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 Dimensions(Millimeter(mm)

DO-722



2CL4510 DO-722