

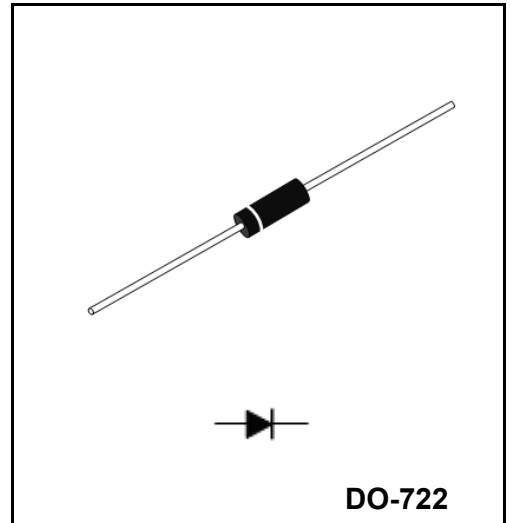
**High voltage silicon diodes for micro-wave oven**

**Reverse Voltage – 8kV**

**Forward Current –350mA**

**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.

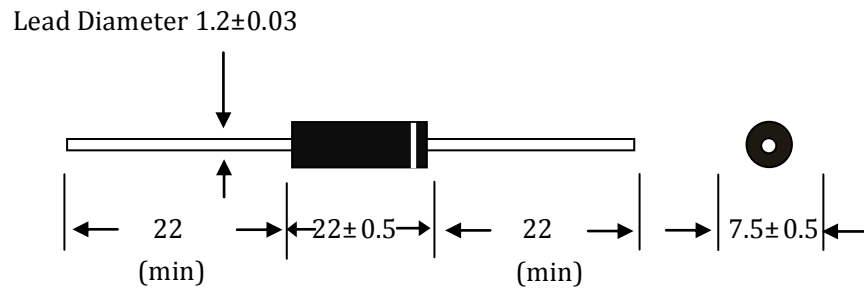
◆Polarity: Color band denotes cathode end

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

Parameter		Symbol	MTH-08	Unit
Repetitive peak reverse voltage		$V_{RRM}$	8	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta≤60°C	$I_{F(AV)}$	350	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	$I_{FSM}$	30	A
Reverse surge current	Wp=1ms, Rectangular-wave, One-shot, Ta=25°C	$I_{RSM}$	150	mA
Peak forward voltage	$I_{FM}=350mA$	$V_{FM}$	≤12	V
Peak reverse current $V_{RM}=V_{RRM}$		$I_{RRM1}$	≤10	μA
Avalanche breakdown voltage	$I_R=100uA$	$V_{(BR)}$	≥8.5	KV
Reverse recovery time	$I_F=I_R=100mA, 90\%$ recovery point	$t_{rr}$	0.15	us
Storage Temperature Range		$T_{stg}$	-40 ~ +130	°C
Virtual junction temperature		$T_{(vj)}$	150	°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	5000	EIA-481-1