

**High voltage silicon diodes**

**Reverse Voltage – 12kV**

**Forward Current – 500mA**

**FEATURES**

◆High reliability

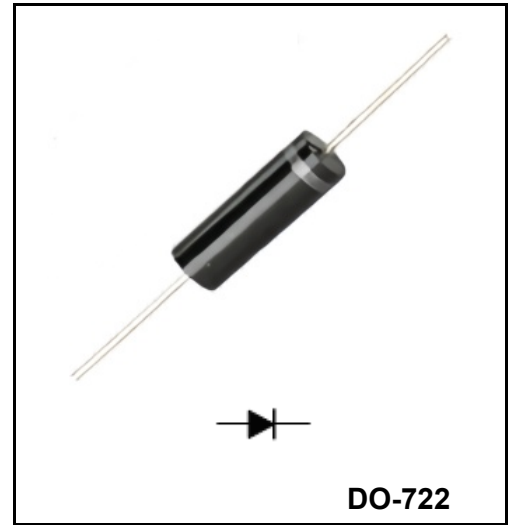
**MECHANICAL DATA**

◆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	
HVM12	YFW HVM12

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

Parameter		Symbol	HVM12	Unit
Repetitive peak reverse voltage		$V_{RRM}$	12	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a \leq 60^\circ\text{C}$	$I_{F(AV)}$	500	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, $T_a = 25^\circ\text{C}$	$I_{FSM}$	30	A
Reverse surge current	$W_p = 1\text{ms}$ , Rectangular-wave, One-shot, $T_a = 25^\circ\text{C}$	$I_{RSM}$	100	mA
Peak forward voltage	$I_{FM} = 500\text{mA}$	$V_{FM}$	$\leq 14$	V
Peak reverse current $V_{RM} = V_{RRM}$		$I_{RRM1}$	$\leq 5$	$\mu\text{A}$
Avalanche breakdown voltage	$I_R = 100\mu\text{A}$	$V_{(BR)}$	$\geq 12.5$	KV
Storage Temperature Range		$T_{stg}$	-40 ~ +130	$^\circ\text{C}$
Virtual junction temperature		$T_{(vj)}$	130	$^\circ\text{C}$

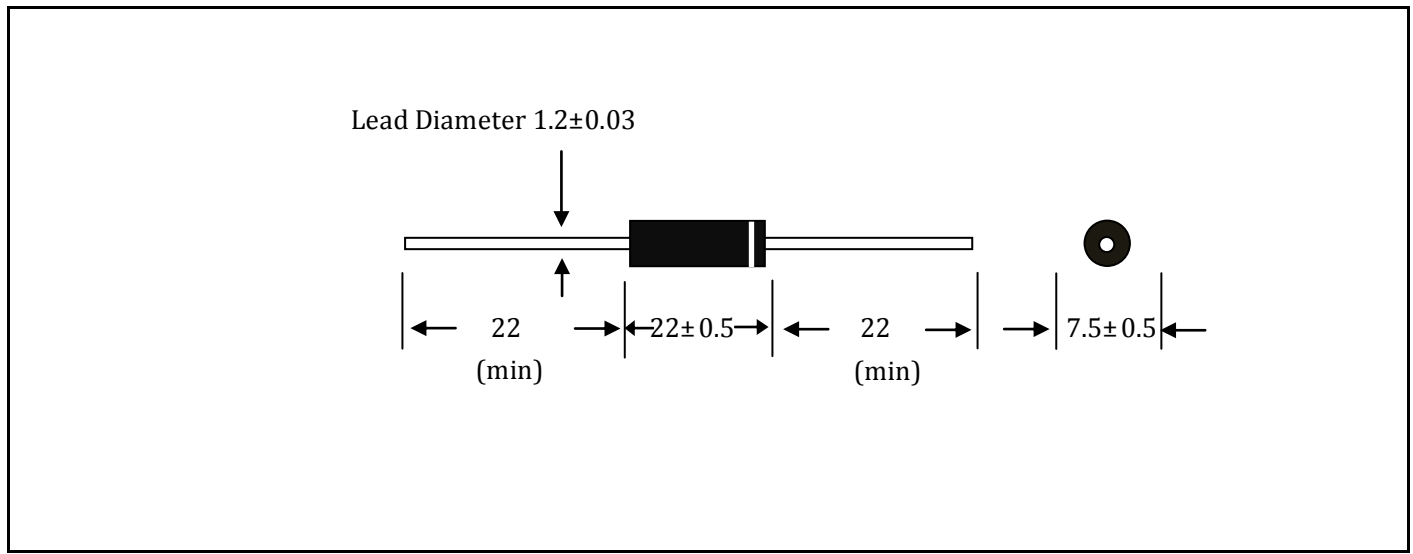
Notes :Cooling Requirement: Cathode terminal is fastened to radiating fin that size is more than 50mm×50mm×0.6mm  
Wind-cooled velocity is more than 0.5m/s.

**Ordering information**

Package	Packing Description	Packing Quantity
DO-722	bulk	500PCS/Inner Bag 5000PCS/Carton

**Package Dimensions(Millimeter(mm))**

**DO-722**



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