

High voltage silicon diodes

Reverse Voltage – 12kV

Forward Current –500mA

FEATURES

◆High reliability

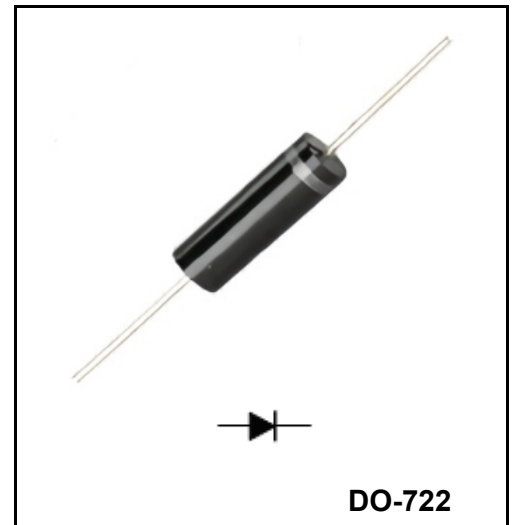
MECHANICAL DATA

◆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}	≤ 14	V
Peak reverse current $V_{RM} = V_{RRM}$		I_{RRM1}	≤ 5	μA
Avalanche breakdown voltage	$I_R = 100\mu\text{A}$	$V_{(BR)}$	≥ 12.5	KV
Storage Temperature Range		T_{stg}	$-40 \sim +130$	$^\circ\text{C}$
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.

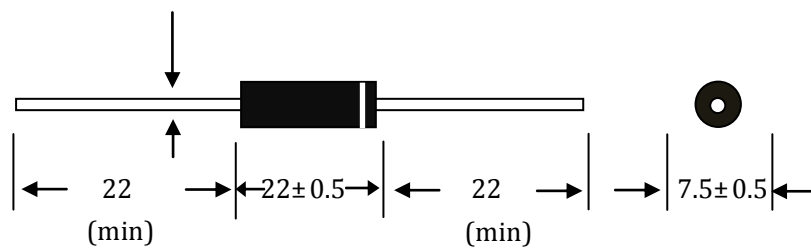
Ordering information

Package	Packing Description	Packing Quantity
DO-722	bulk	500PCS/Inner Bag 4000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-722

Lead Diameter 1.2 ± 0.03



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