

High voltage silicon diodes

Reverse Voltage – 16kV

Forward Current –350mA

FEATURES

♦High reliability



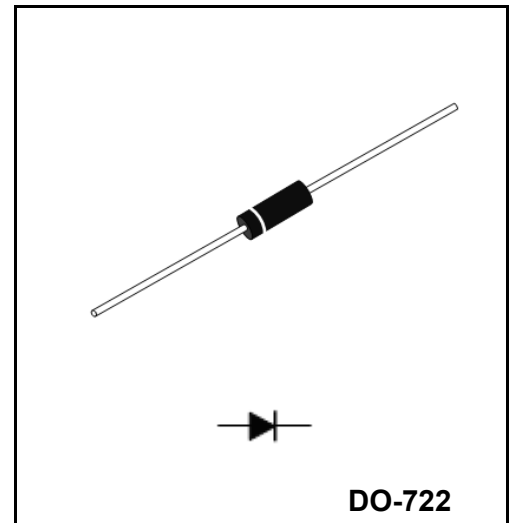
MECHANICAL DATA

♦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

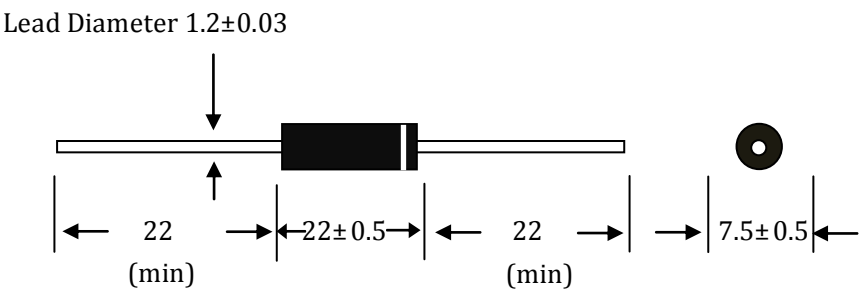


Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	HVM16	Unit
Repetitive peak reverse voltage		V_{RRM}	16	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a \leq 60^\circ\text{C}$	$I_{F(AV)}$	350	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	$I_{FM} = 350\text{mA}$	V_{FM}	≤ 14	V
Peak reverse current $V_{RM} = V_{RRM}$		I_{RRM1}	≤ 5	μA
Avalanche breakdown voltage	$I_R = 100\mu\text{A}$	$V_{(BR)}$	≥ 16.5	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.

Package outline dimensions



Summary of Packing Options

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