

**Fast recovery high voltage diodes**

**Reverse Voltage – 8kV**

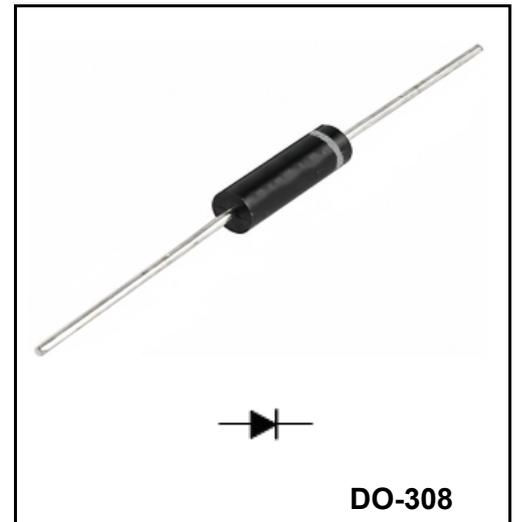
**Forward Current –50mA**

**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-002and 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)**

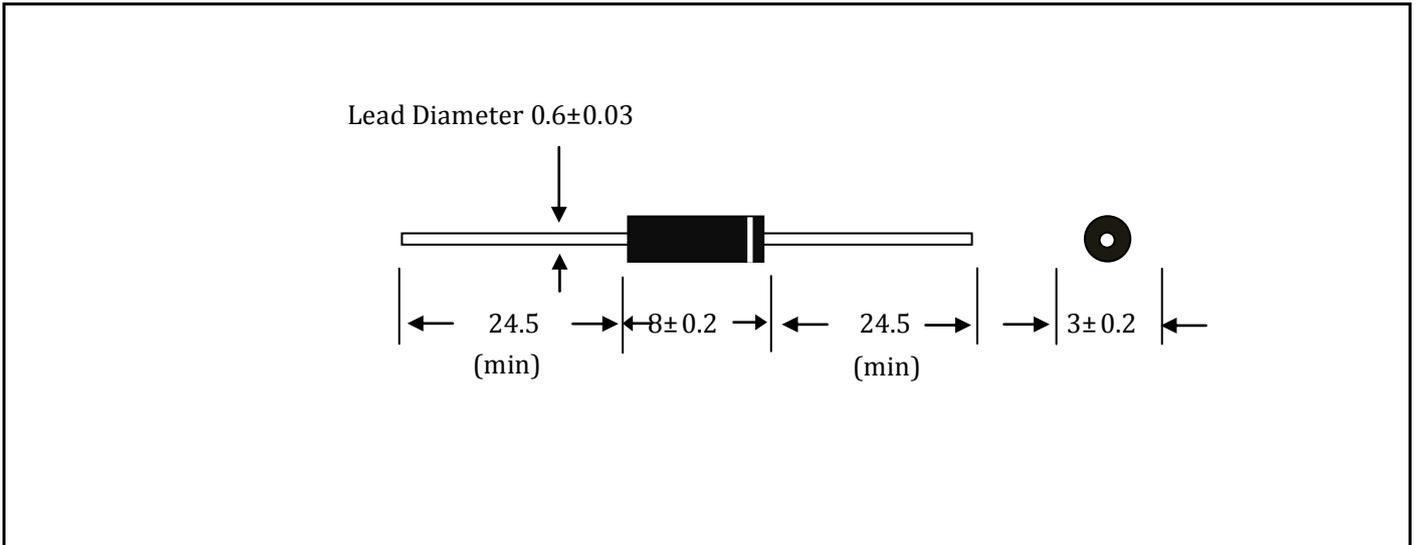
Parameter		Symbol	HV0850	Unit
Repetitive peak reverse voltage		$V_{RRM}$	8	KV
Non-Repetitive peak reverse voltage		$V_{RSM}$	10	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	50	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	$I_{FSM}$	3	A
Peak forward voltage	$I_{FM}=30mA$	$V_{FM}$	30	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	$I_{RRM}$	2	$\mu A$
	Ta=100°C		5	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	$T_{rr}$	0.10	$\mu S$
Operating ambient temperature		$T_a$	-40~+125	°C
Storage Temperature Range		$T_{stg}$	-40~+150	°C
Virtual junction temperature		$T_{(vj)}$	125	°C

**Ordering information**

Package	Packing Description	Packing Quantity
DO-308	braid	2500PCS/Box 25000PCS/Carton

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

**DO-308**



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