

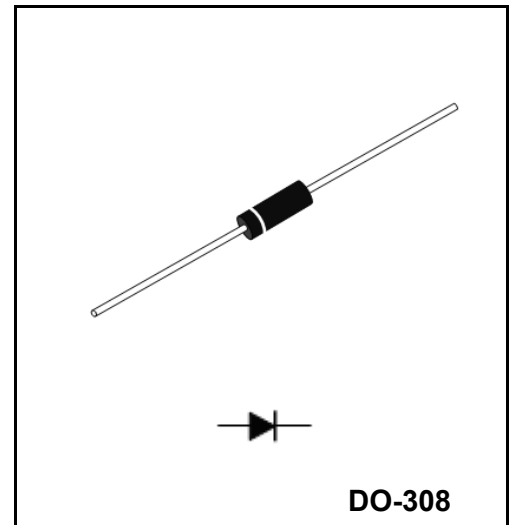
**Fast recovery high voltage diodes**

**Reverse Voltage – 8kV**

**Forward Current –30mA**

**FEATURES**

- ◆Supersmall size
- ◆High reliability
- ◆High speed switching



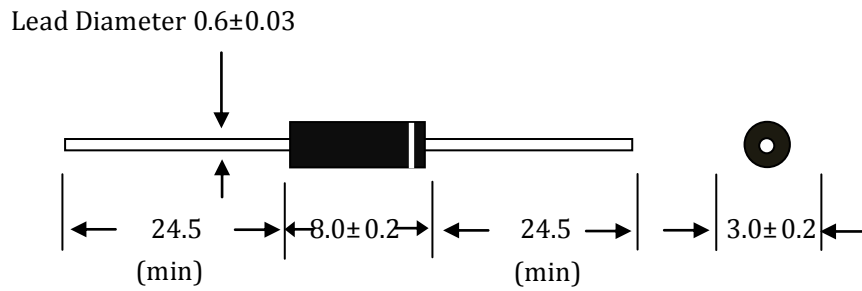
**MECHANICAL DATA**

- ◆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	HV0830	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	$I_{F(AV)}$	30	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	μA
	Ta=100°C		5	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	$T_{rr}$	0.10	uS
Operating ambient temperature		$T_a$	-40 ~ +100	°C
Storage Temperature Range		$T_{stg}$	-40 ~ +120	°C
Virtual junction temperature		$T_{(vj)}$	120	°C

Package outline dimensions



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-308	BOX	5000	EIA-481-1