

**Fast Recovery High Voltage Diodes**

**Reverse Voltage –15KV**

**Forward Current –200mA**

**FEATURES**

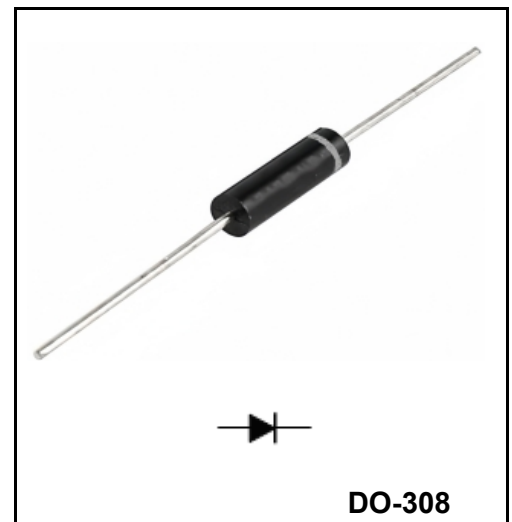
- ◆Supersmall size
- ◆High reliability
- ◆High speed switching

**Applications**

Rectification for high voltage power supply of color T.V、CRT display、V.T.R camera and Others

**MECHANICAL DATA**

- ◆Case: DO-308
- ◆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 JESD201 class 1A whisker test.
- ◆Polarity: Color band denotes cathode end

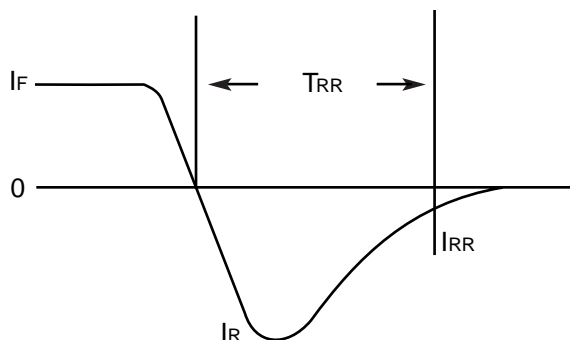


**Maximum rating (Ta=25°C unless otherwise noted)**

Parameter		Symbols	UX-F15	Units
Repetitive peak reverse voltage		$V_{RRM}$	15	KV
Non-Repetitive peak reverse voltage		$V_{RMS}$	16	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	200	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	$I_{FSM}$	15	A
Peak forward voltage	$I_{FM}=200mA$	$V_{FM}$	20	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	$I_{RRM}$	2	$\mu A$
	Ta=100°C		5	
Reverse recovery time	$I_F=2mA$ , $I_{RM}=4mA$	$t_{rr}$	0.1	$\mu s$
Operating ambient temperature		Ta	-40 ~ +100	°C
Storage Temperature Range		Tstg	-40 ~ +120	°C
Virtual junction temperature		T(vj)	120	°C

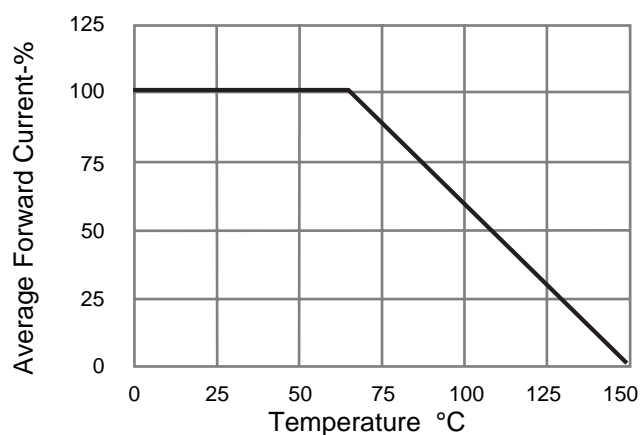
Typical characteristics

Reverse Recovery Measurement Waveform



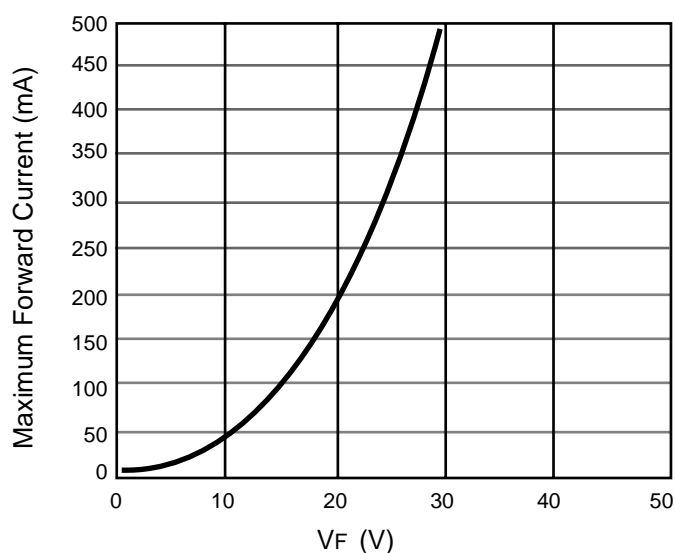
Typical data capture points:  $I_F = 0.5I_R$ ,  $I_R, I_{RR} = 0.25I_R$   
 $I_R$  is typically the rated average forward current maximum ( $I_{FAVM}$ ) of the D.U.T.

Forward Current Derating Curve

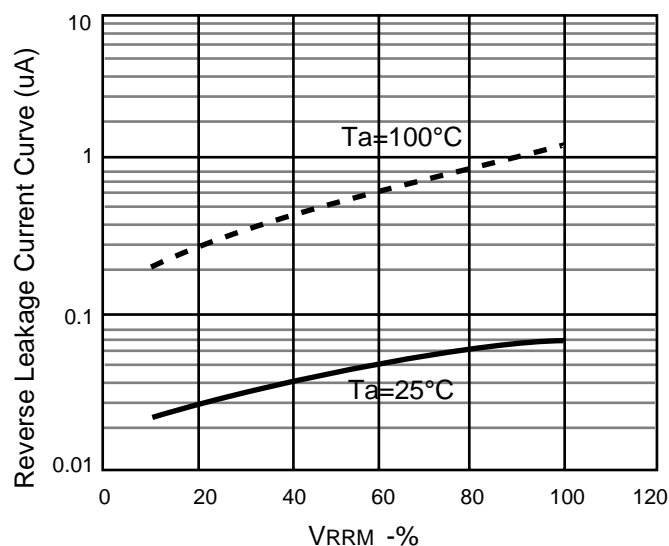


— 150 °C (All other part number)

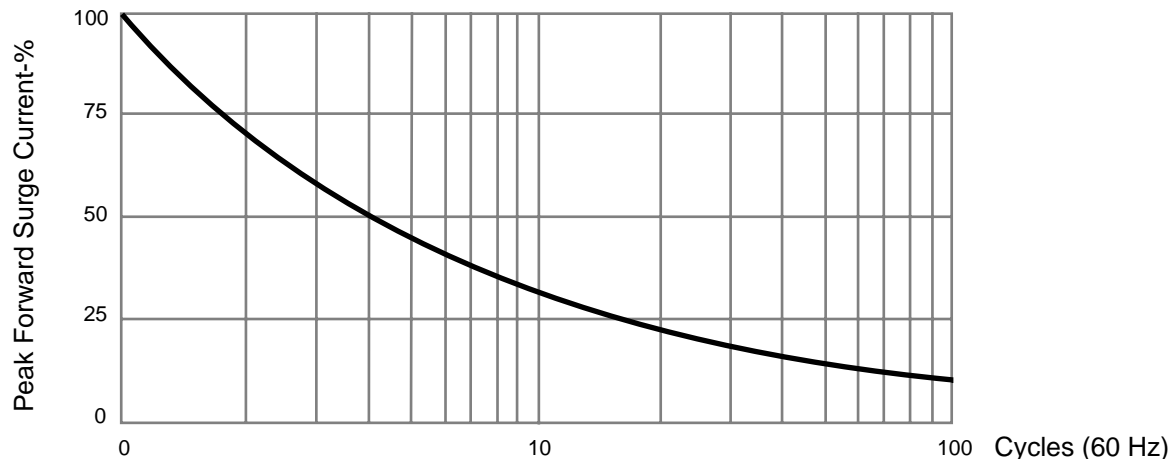
Positive Characteristic Curve



Reverse Leakage Current Curve With Voltage Variation



Repetitive Surge Current Derating Curve



This curve represents the percentage of published maximum surge rating as a function of surge repetition.

**Note:** Specifications subject to change without notice. Photo is representation only.

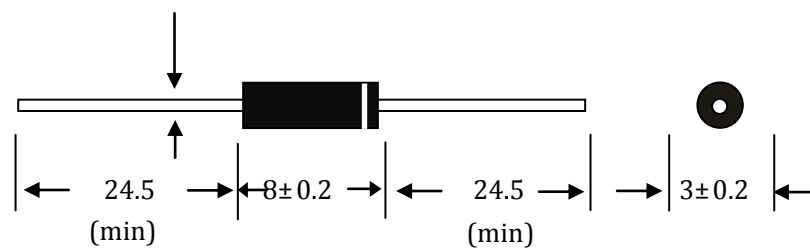
**Ordering information**

Package	Packing Description	Packing Quantity
DO-308	ammo pack	5000PCS/Inner Box 50000PCS/Carton

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

**DO-308**

Lead Diameter  $0.6 \pm 0.03$



## Disclaimer

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