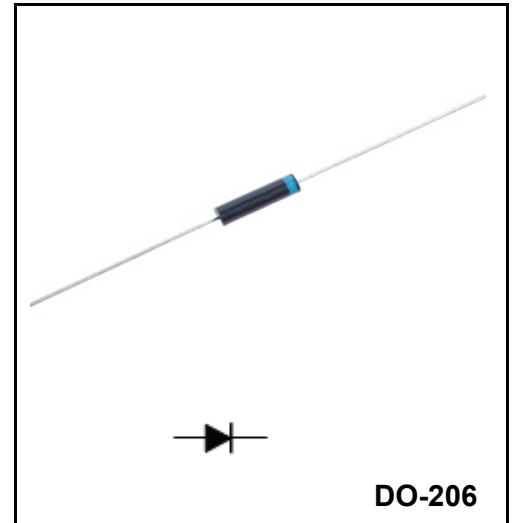


**Fast Recovery High Voltage Diodes**
**Reverse Voltage – 8kV**
**Forward Current –10mA**
**FEATURES**

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

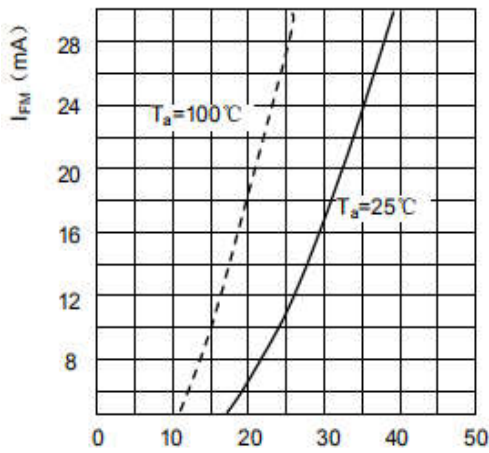
**MECHANICAL DATA**

- ◆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)**

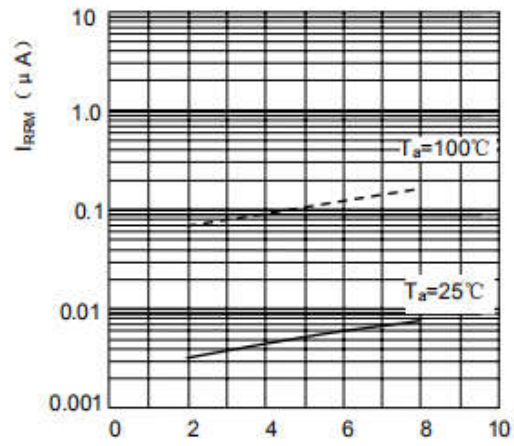
Parameter		Symbol	2CL11	Unit
Repetitive peak reverse voltage		$V_{RRM}$	8	KV
Non-Repetitive peak reverse voltage		$V_{RSM}$	10	KV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	$I_{F(AV)}$	10	mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, Ta=25°C	$I_{FSM}$	0.5	A
Peak forward voltage	$I_{FM}=10mA$	$V_{FM}$	28	V
Peak reverse current $V_{RM}=V_{RRM}$	Ta=25°C	$I_{RRM}$	2	μA
	Ta=100°C		5	
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	$T_{rr}$	0.045	uS
Operating ambient temperature		$T_a$	-40~+125	°C
Storage Temperature Range		$T_{stg}$	-40~+150	°C
Virtual junction temperature		$T_{(vj)}$	125	°C

Ratings and Characteristic Curves



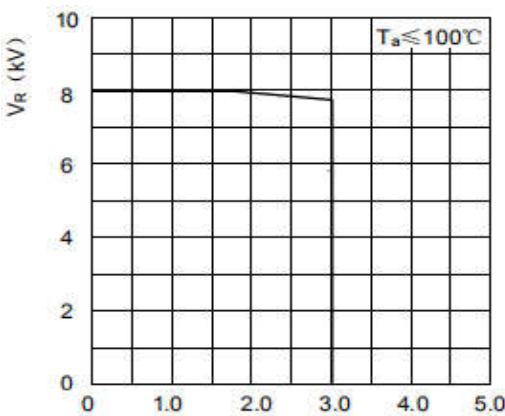
$V_{FM}$  (V)

Forward Characteristics



$V_{RM}$  (kV)

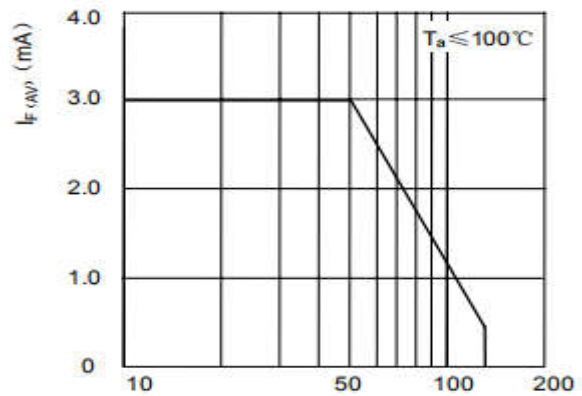
Reverse Characteristics



$I_{F(AV)}$  (mA)

$V_R - I_{F(AV)}$

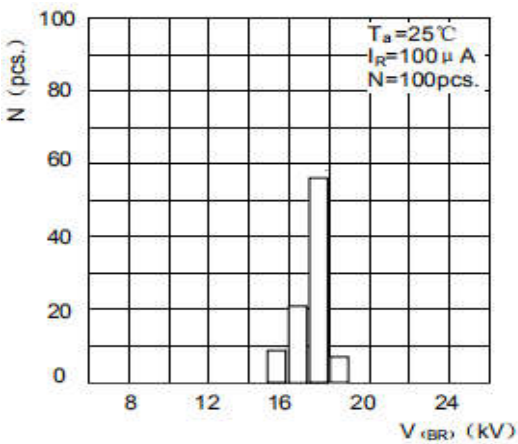
$V_R - I_{F(AV)}$  Curve



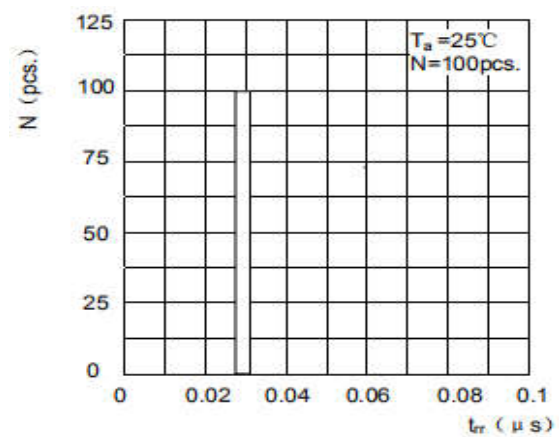
$f_H$  (kHz)

$I_{F(AV)} - f_H$

$I_{F(AV)} - f_H$  Curve



Breakdown Voltage Distribution



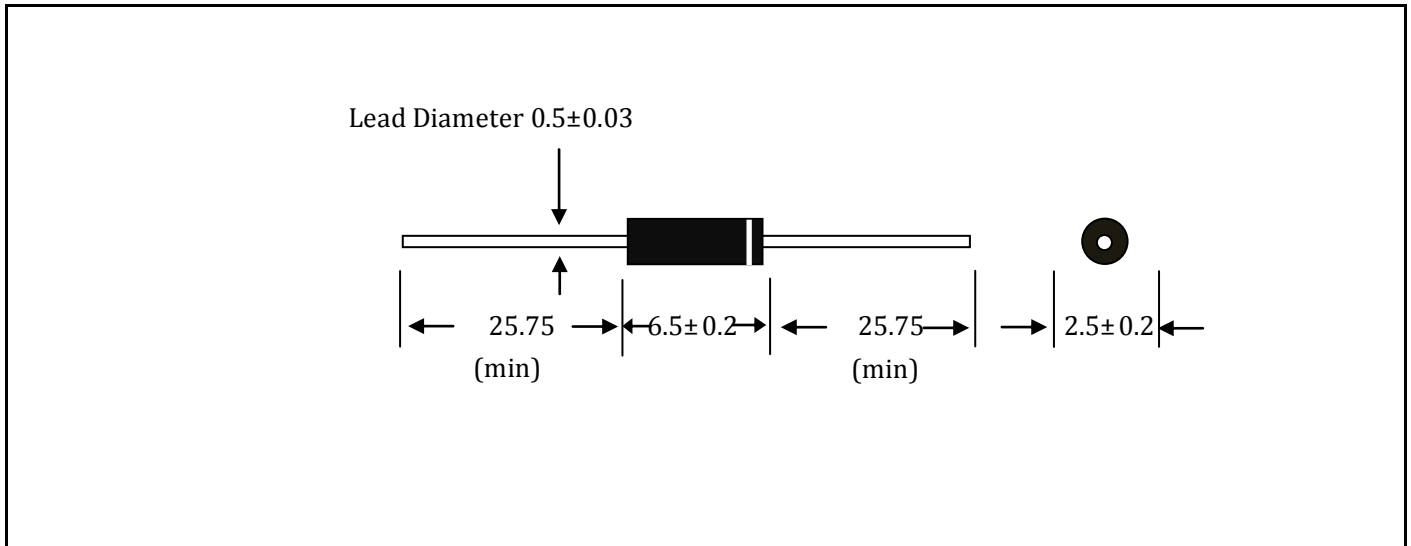
Reverse Recovery Time Distribution

Ordering information

Package	Packing Description	Packing Quantity
DO-206	ammo pack	5000PCS/Inner Box 50000PCS/Carton

Package Dimensions(Millimeter(mm))

DO-206



## Disclaimer

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