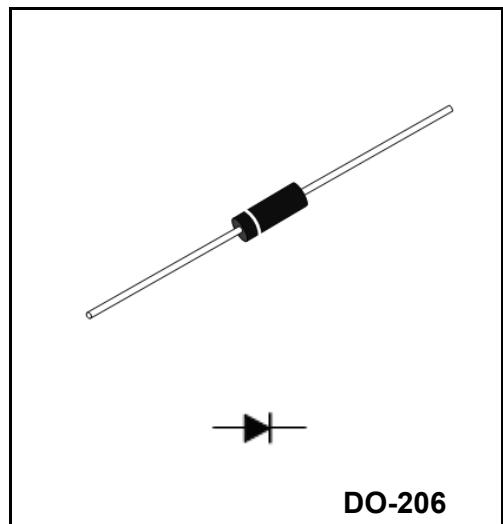


Ultra-Fast recovery high voltage diodes
Reverse Voltage – 8kV
Forward Current –10mA
FEATURES

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

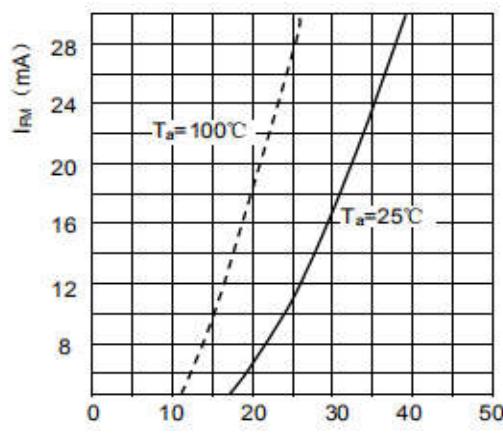
MECHANICAL DATA

- ◆ Case: Molded Plastic Body
- ◆ Epoxy meets UL 94V-0 flammability rating
- ◆ Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.
- ◆ Polarity: Color band denotes cathode end

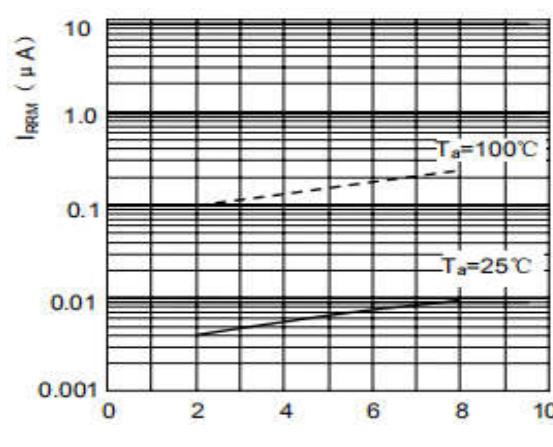

DO-206
Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	2CL01	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}	T _a =25°C	I _{RRM}	2 5	μA
	T _a =100°C			
Reverse recovery time	I _F =2mA, I _{RM} =4mA	T _{rr}	0.05	μs
Operating ambient temperature		T _a	-40 ~ +100	°C
Storage Temperature Range		T _{stg}	-40 ~ +120	°C
Virtual junction temperature		T _(vj)	120	°C

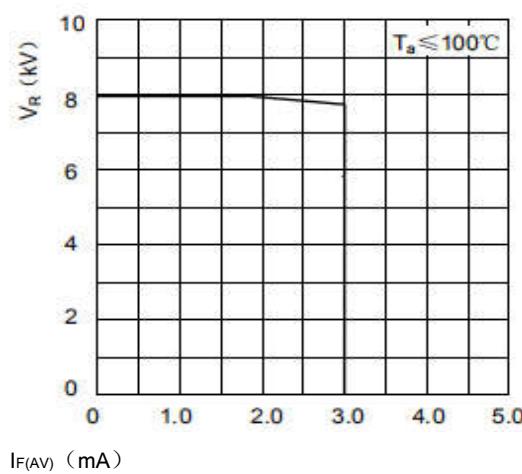
Typical characteristics



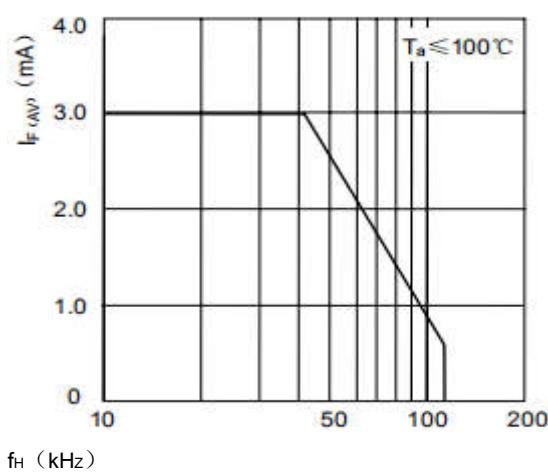
Forward Characteristics



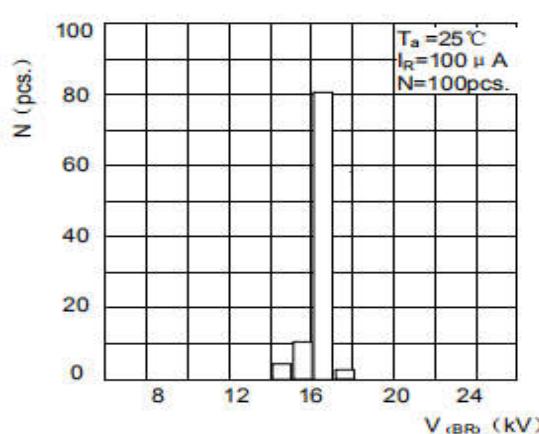
Reverse Characteristics



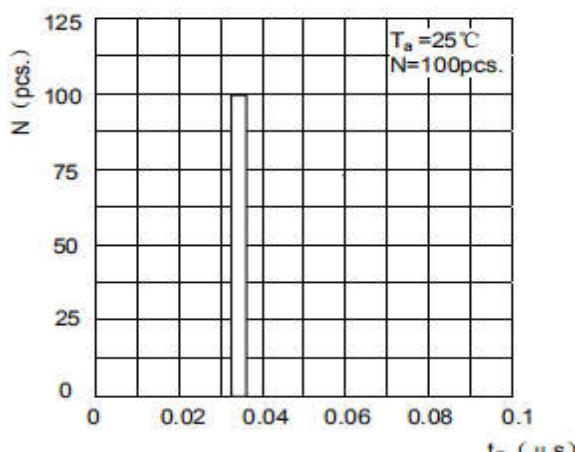
V_R—I_F(AV) Curve



I_F(AV)—f_H Curve

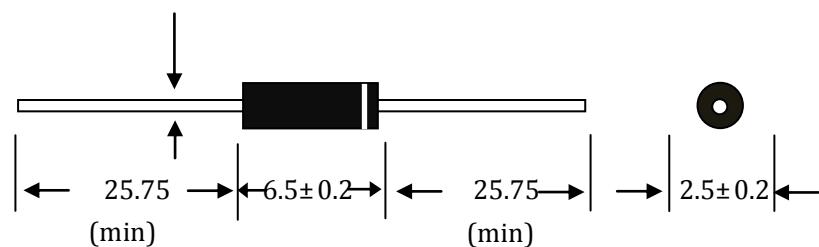


Breakdown Voltage Distribution



Reverse Recovery Time Distribution

Package outline dimensions

Lead Diameter 0.5 ± 0.03 

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-206	BOX	5000	EIA-481-1