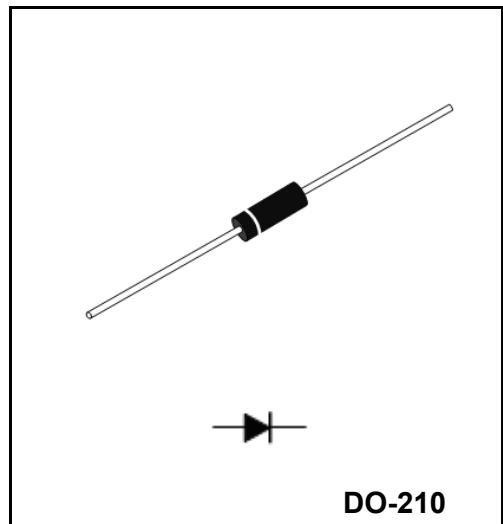


Fast Recovery High Voltage Diodes
Reverse Voltage – 10KV-12KV
Forward Current – 5mA
FEATURES

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

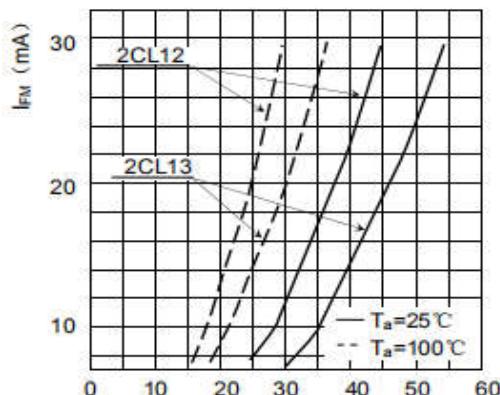

DO-210
MECHANICAL DATA

- ◆ 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

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

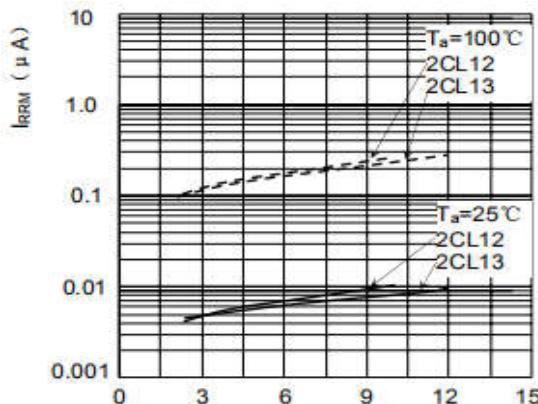
Parameter		Symbol	2CL12	2CL13	Unit
Repetitive peak reverse voltage		V _{RRM}	10	12	kV
Non-Repetitive peak reverse voltage		V _{RSM}	12	15	kV
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	I _{F(AV)}	5		mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, T _a =25°C	I _{FSM}	0.5		A
Peak forward voltage	I _{FM} =10mA	V _{FM}	35	42	V
Peak reverse current V _{RM} =V _{RRM}		I _{RRM}	2 5		μA
Reverse recovery time	I _F =2mA, I _{RM} =4mA	T _{rr}	0.045		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



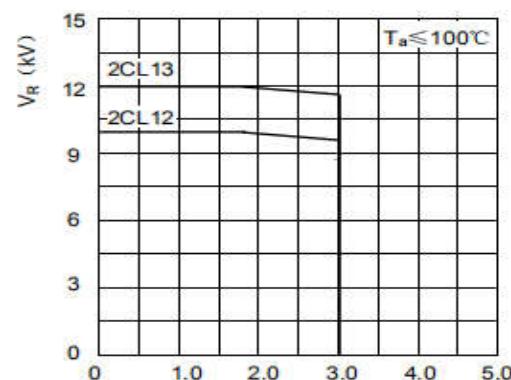
V_{FM} (V)

Forward Characteristics



V_R (kV)

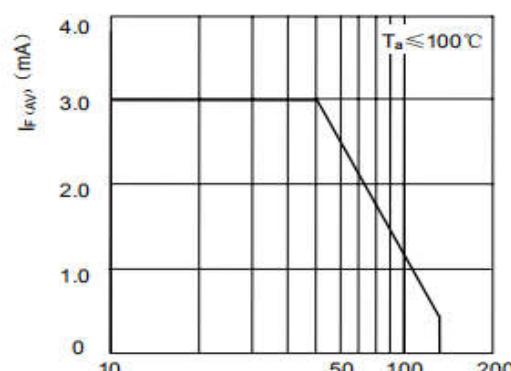
Reverse Characteristics



I_F(AV) (mA)

V_R — I_F(AV)

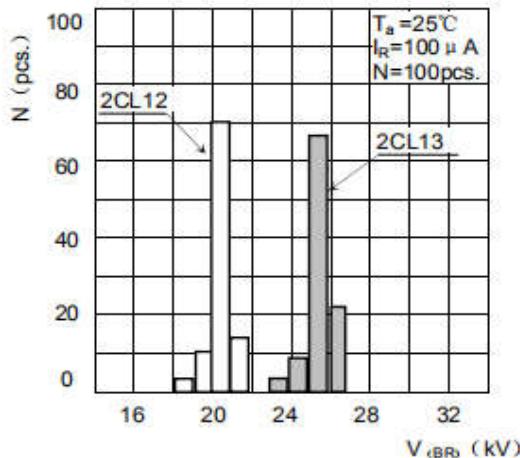
V_R — I_F(AV) Curve



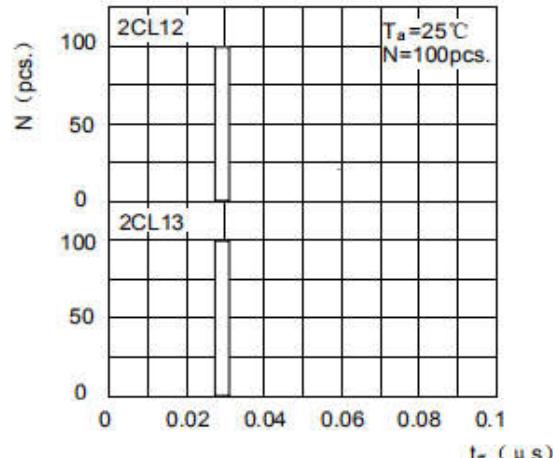
f_H (kHz)

I_F(AV) — f_H

I_F(AV) — f_H Curve

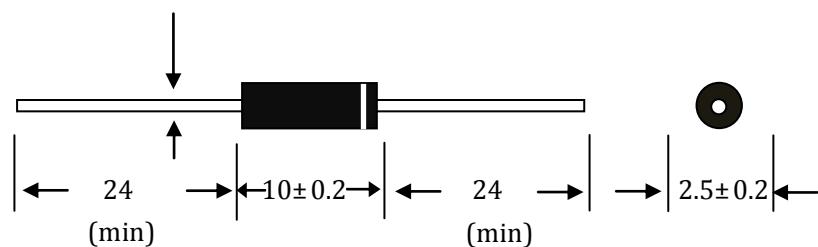


Breakdown Voltage Distribution



Reverse Recovery Time Distribution

Package outline dimensions

Lead Diameter 0.5 ± 0.03 

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-210	BOX	5000	EIA-481-1