

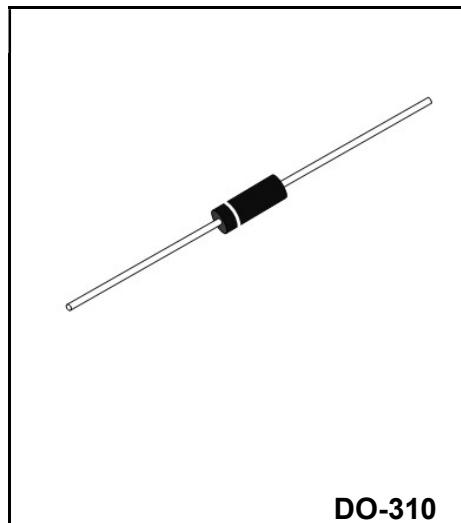
Fast recovery high voltage diodes

Reverse Voltage -10KV to 12KV

Forward Current -5mA

FEATURES

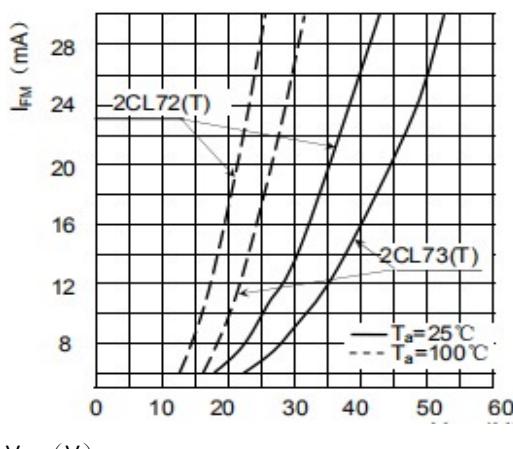
- ◆ Supersmall size
- ◆ High reliability
- ◆ High speed switching
- ◆ Epoxy meets UL94V-0 flammability rating



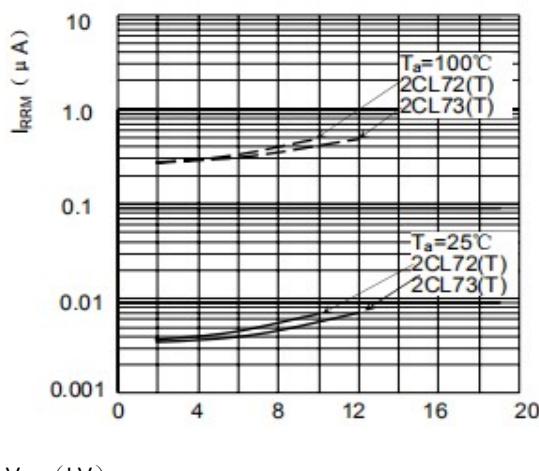
DO-310

Parameter		Symbols	2CL72T	2CL73T	Units
Repetitive peak reverse voltage		V_{RRM}	10	12	KV
Non-Repetitive peak reverse voltage		V_{RMS}	12	15	KV
Average forward current	60Hz half-sine wave, Resistance load, $T_a=25^\circ C$	$I_{F(AV)}$	5		mA
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, $T_a=25^\circ C$	I_{FSM}	0.5		A
Peak forward voltage	$I_{FM}=10\text{mA}$	V_{FM}	42	48	V
Peak reverse current $V_{RM}=V_{RRM}$		I_{RRM}	2 5		μA
$T_a=100^\circ C$					
Reverse recovery time	$I_F=2\text{mA}, I_{RM}=4\text{mA}$	T_{rr}	0.08		μs
Operating ambient temperature		T_a	-40 ~ +100		$^\circ C$
Storage Temperature Range		T_{stg}	-40 ~ +120		$^\circ C$
Virtual junction temperature		$T_{(v)}$	120		$^\circ C$

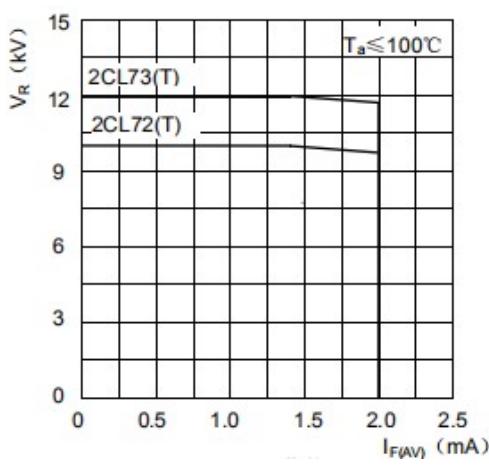
Typical characteristics



Forward Characteristics

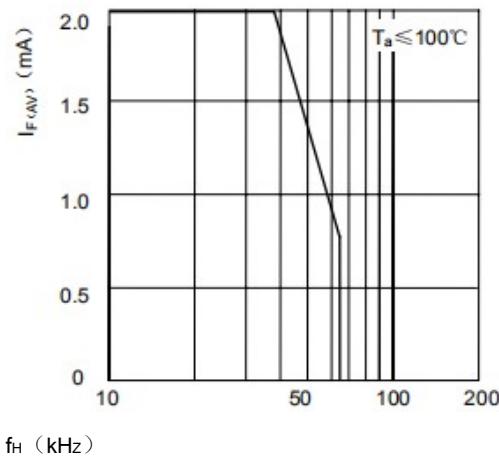


Reverse Characteristics



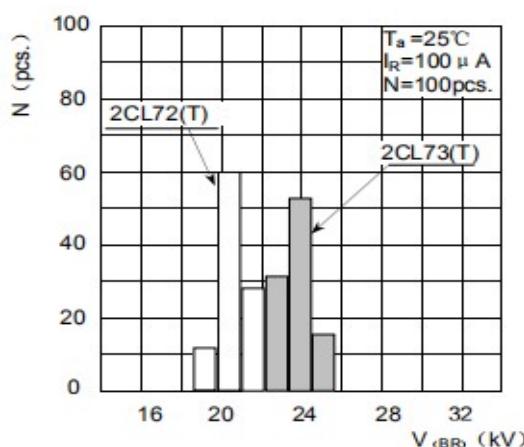
VR-IF (AV)

VR-IF (AV) Curve

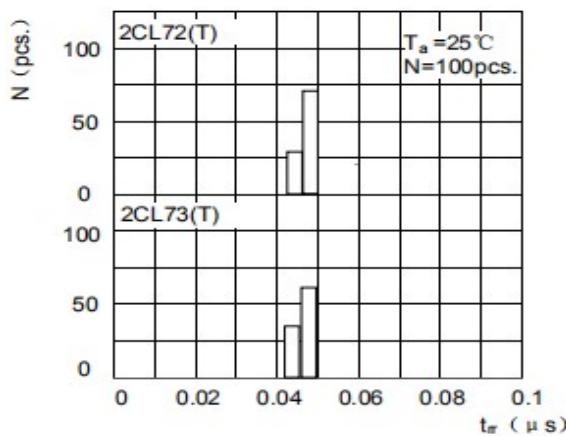


$I_{F(AV)}$ — f_H

$I_{F(AV)}$ — f_H Curve



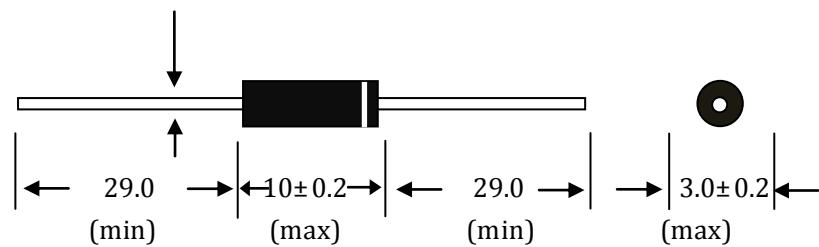
Breakdown voltage Distribution



Reverse Recovery Time Distribution

Package Outline DO-310

Lead Diameter 0.6 ± 0.03



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-310	BOX	5000	EIA-481-1