SiPower

Power Semiconductor Technology

2CL72 2CL73 2CL74
Fast Recovery High Voltage Diodes

■ Features

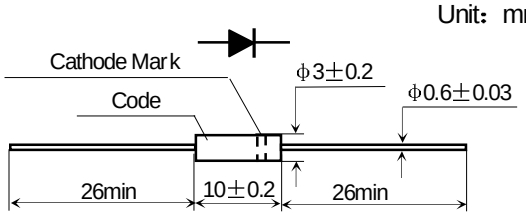
- Supersmall size
- High reliability
- High speed switching

■ Applications

- Rectification for high voltage power supply of color T.V.
- Rectification for high voltage power supply of CRT display.
- Others

■ Outline Dimensions and Mark

Unit：mm



Type	Code	Cathode Mark
2CL72	T-72	
2CL73	T-73	
2CL74	T-74	

■ Limiting Values（Absolute Maximum Rating）

Item	Symbol	Unit	2CL72	2CL73	2CL74
Repetitive Peak Reverse Voltage	V_{RRM}	kV	10	12	14
Non-Repetitive Peak Reverse Voltage	V_{RSM}	kV	12	15	17
Average Forward Current	$I_{F(AV)}$	mA	5 （$50H_Z$ Half-sine wave, Resistance load, T_a=25℃）		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	0.5 （$50H_Z$ Half-sine wave,1cycle,T_a=25℃）		
Operating Ambient Temperature	T_a	℃	-40 ~ +100		
Storage Temperature	T_{stg}	℃	-40 ~ +120		
Virtual Junction Temperature	$T_{(vj)}$	℃	120		

■ Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition		Max		
					2CL72	2CL73	2CL74
Peak Forward Voltage	V_{FM}	V	I_{FM}=10mA		36	45	51
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	T_a=25℃	2		
	I_{RRM2}			T_a=100℃	5		
Reverse Recovery Time	t_{rr}	μs	I_F=2mA I_{RM}=4mA		0.08		

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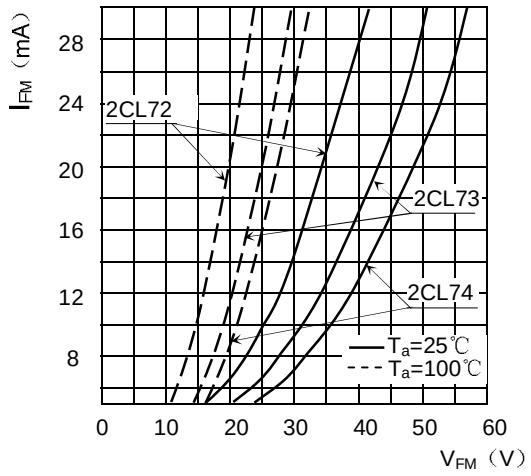
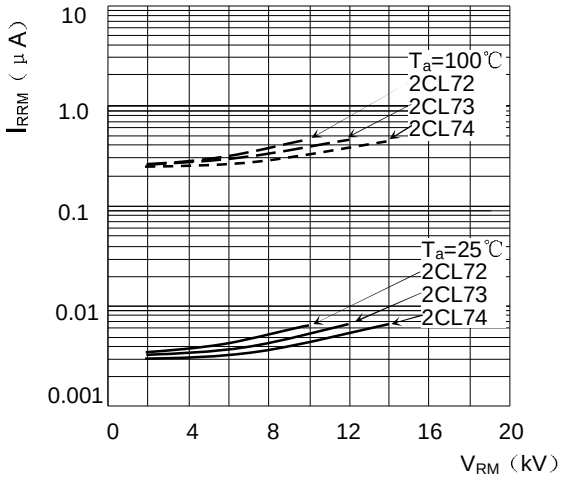
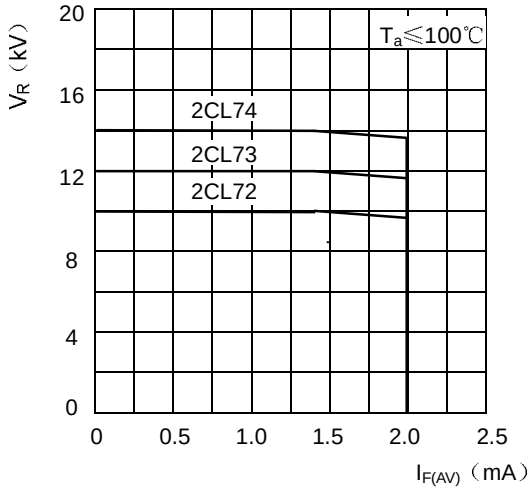
■ Characteristics(Typical)



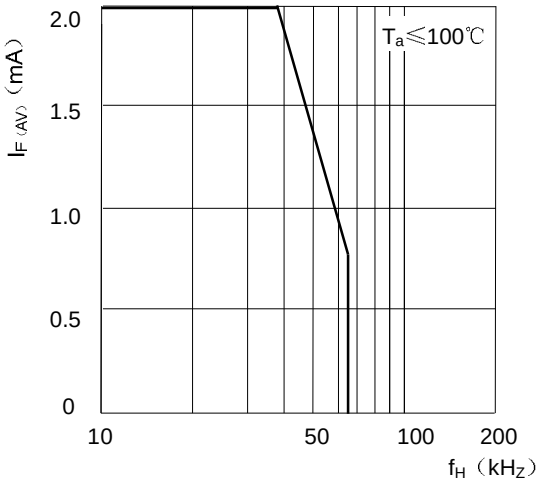
Forward Characteristics



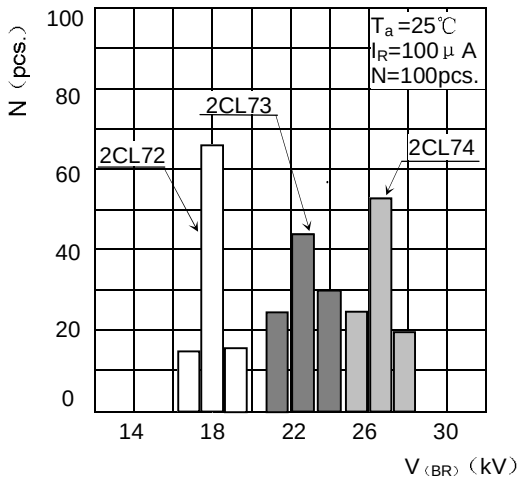
Reverse Characteristics



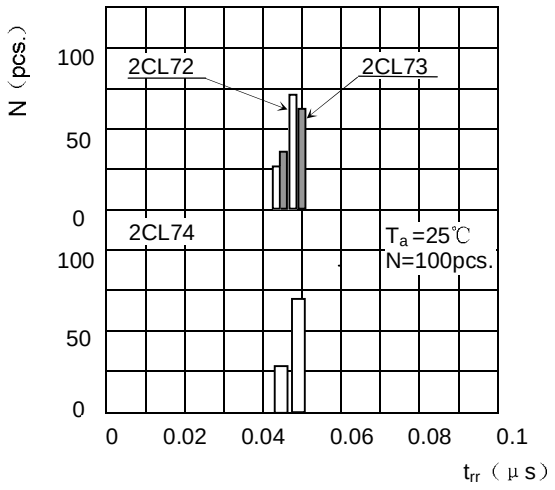
V_R—$I_{F(AV)}$ Curve



$I_{F(AV)}$—f_H Curve



Breakdown Voltage Distribution



Reverse Recovery Time Distribution