

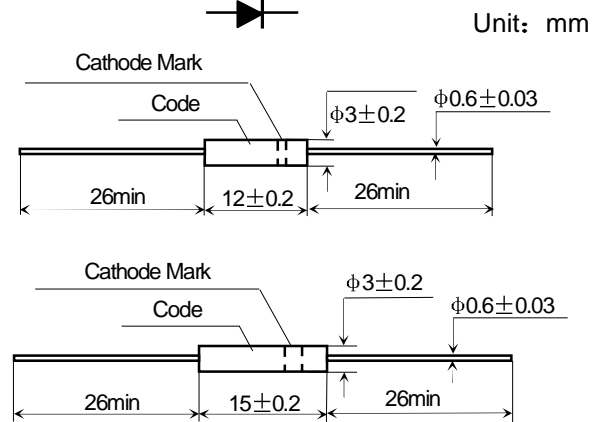
■ Features


- 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.
- Other

■ Outline Dimensions and Mark



Type	Code	Cathode Mark
2CL77	T-77	

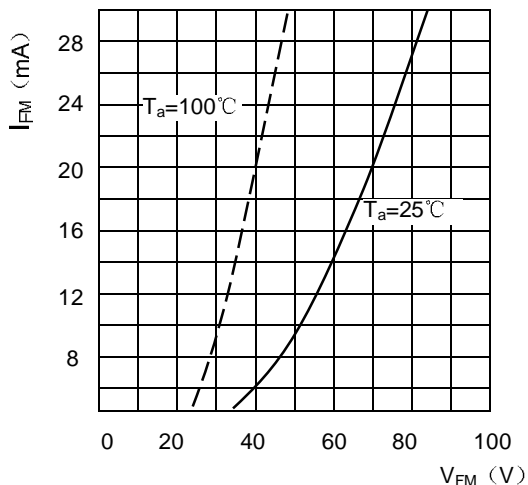
■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	2CL77
Repetitive Peak Reverse Voltage	V_{RRM}	kV	20
Non-Repetitive Peak Reverse Voltage	V_{RSM}	kV	25
Average Forward Current	$I_{F(AV)}$	mA	5 (50Hz Half-sine wave, Resistance load, $T_a=25^\circ\text{C}$)
Surge(Non-repetitive)Forward Current	I_{FSM}	A	0.5 (50Hz Half-sine wave, 1cycle, $T_a=25^\circ\text{C}$)
Operating Ambient Temperature	T_a	$^\circ\text{C}$	-40 ~ +100
Storage Temperature	T_{stg}	$^\circ\text{C}$	-40 ~ +120
Virtual Junction Temperature	$T_{(vj)}$	$^\circ\text{C}$	120

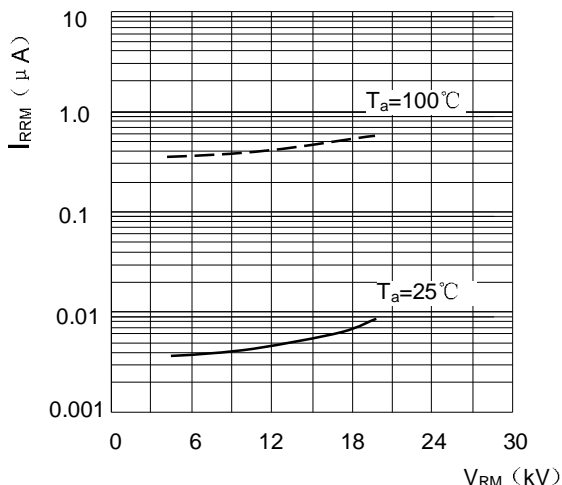
■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	V_{FM}	V	$I_{FM}=10\text{mA}$	75	
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	2
	I_{RRM2}			$T_a=100^\circ\text{C}$	5
Reverse Recovery Time	t_r	μs	$I_F=2\text{mA}$ $I_{RM}=4\text{mA}$	0.08	

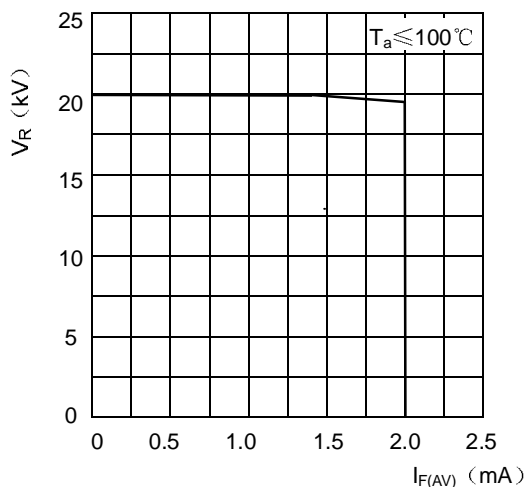
■ Characteristics(Typical)



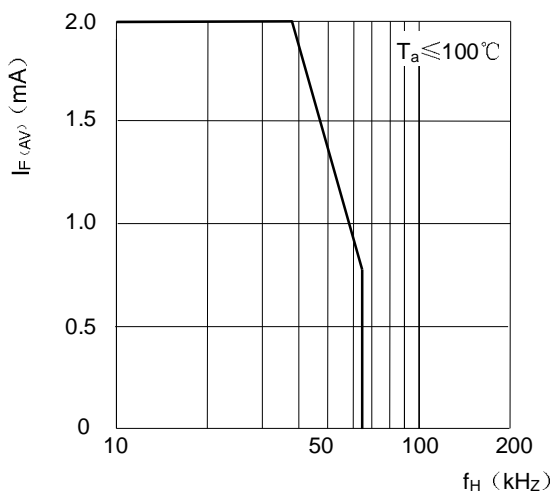
Forward Characteristics



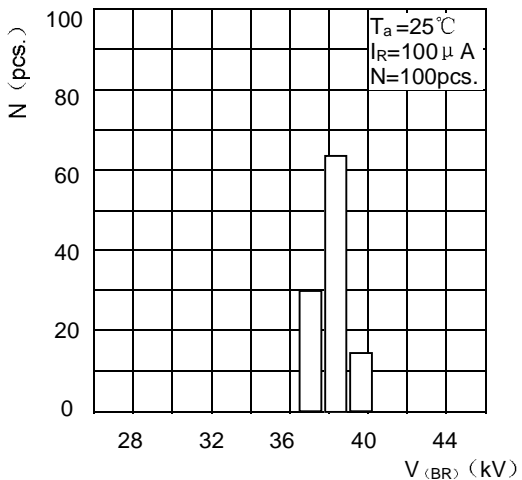
Reverse Characteristics



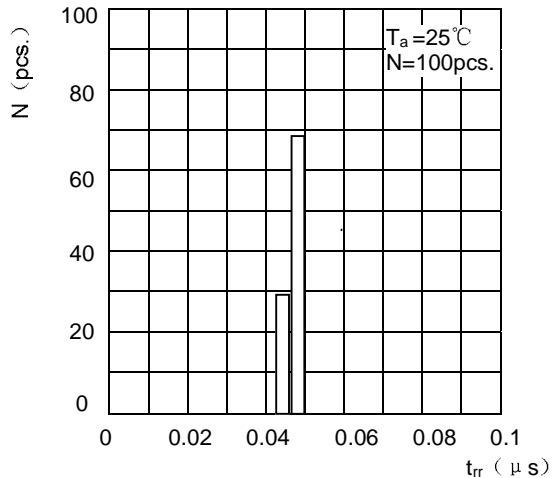
$V_R - I_{F(AV)}$ Curve



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



Breakdown Voltage Distribution



Reverse Recovery Time Distribution