

2CL70-74 high voltage diodes adopt the designing of high reliable multiple mesa structure and silicon tube, molded in small volume and compact packaging surface by epoxy resin.

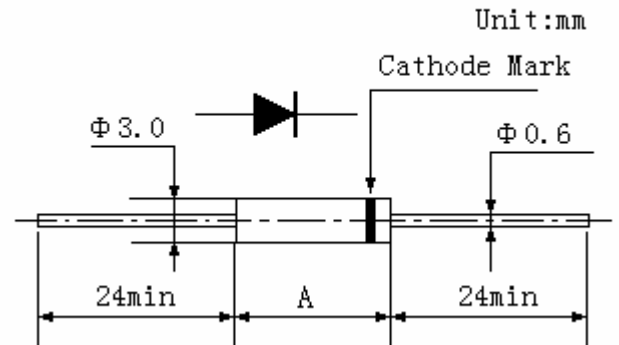
Features:

- Fast recovery
- Low forward on pressure, low leakage current
- Protection of avalanche breakdown
- Anti-impacting of discharging of CRT high voltage surge current
- Axial lead diode, could weld on tube pin
- Epoxy resin molded and can resist corrosion on its surface

Application:

- Television and FBT display
- Cathode ion generator, laser power supply
- neon lamp power supply, voltage multiplier assembly
- DC high voltage generator assembly

■ OUTLINE DRAWINGS



Type	2CL70	2CL71	2CL72	2CL73	2CL74
A	8.0		10.0		

MAX.RATED VALUE

Rated Value	Sign	Condition	2CL70	2CL71	2CL72	2CL73	2CL74	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		6	8	10	12	14	kV
Average Forward Rectifier Current	I_O		5.0					mA
Max. Irrepetitive Surge current	I_{FSM}	$T_a=25^{\circ}C$ rated load "half cycle" single phase, 50Hz	0.5					A
Junction Temperature	T_j	half cycle sinewave peak voltage	120					C
Ambient Humidity	T_c		100					C
Store Humidity	T_{stg}		-40—120					C

Electric Characteristic

Rated Value	Sign	Condition	2CL70	2CL71	2CL72	2CL73	2CL74	Unit
Max. Forward Peak Voltage	V	$I_F=10mA$	20.0	25.0	30.0	37.5	42.0	V
Max. Reverse Recovery Time	t_{rr}	$I_F=2mA$ $I_R=4mA$	0.1					μS
Max. Reverse Leakage Current	I_{R1}	$V_R=V_{RRM}$, $25^{\circ}C$	2.0					μA
Max. Reverse Leakage Current	I_{R2}	$V_R=V_{RRM}$, $100^{\circ}C$	5.0					μA
Max. Junction Capacitor	C_j		2					pF

2CL75,77 high voltage diodes adopt the designing of high reliable multiple mesa structure and silicon tube, molded in small volume and compact packaging surface by epoxy resin.

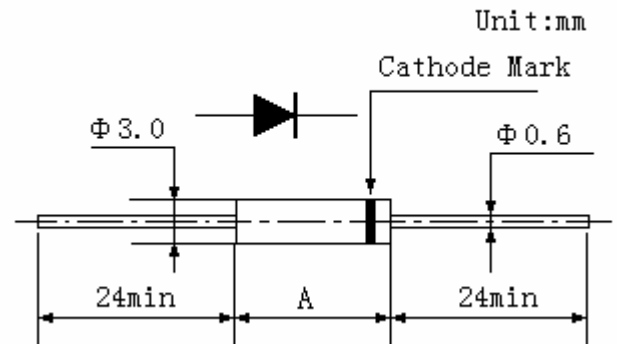
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Application:

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■ **OUTLINE DRAWINGS**



Type	2CL75	2CL77
A	12.0	

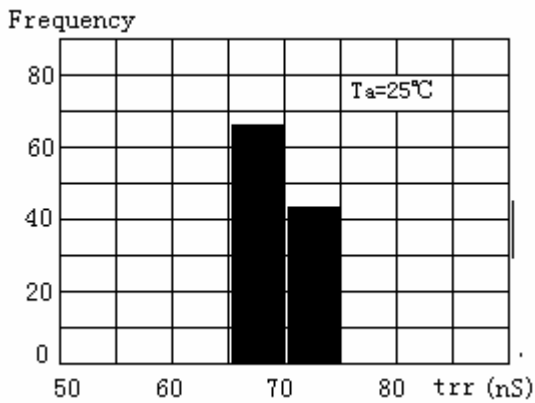
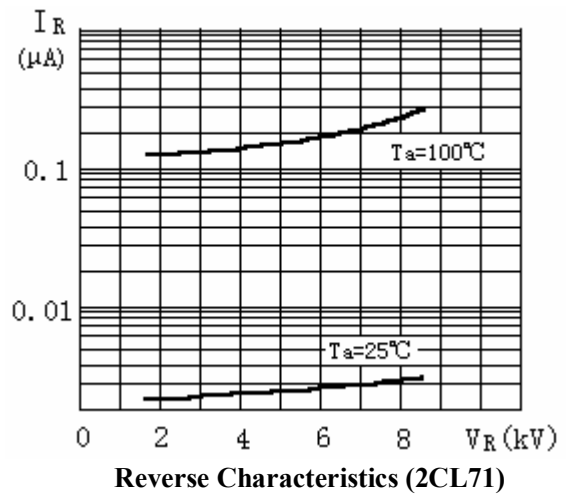
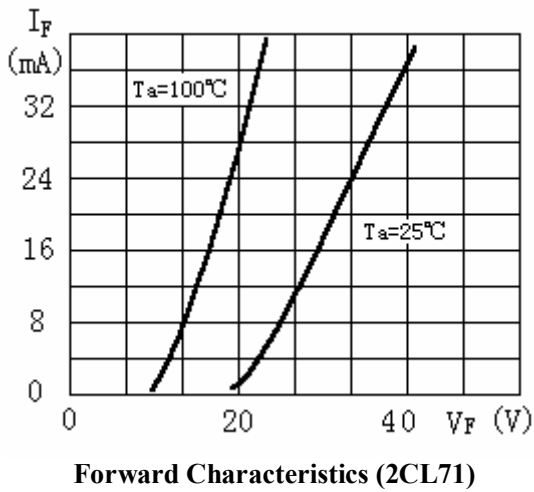
MAX.RATED VALUE

Rated Value	Sign	Condition	2CL75	2CL77	Unit
Peak Reverse Repetitive Voltage	V_{RRM}		16	20	kV
Average Forward Rectifier Current	I_O		5.0		mA
Max. Irrepetitive Surge current	I_{FSM}	$T_a=25^{\circ}C$ rated load" half cycle" single phase 50Hz	0.5		A
Junction Temperature	T_j	half cycle sinewave peak voltage	120		C
Ambient Humidity	T_c		100		C
Store Humidity	T_{stg}		-40—120		C

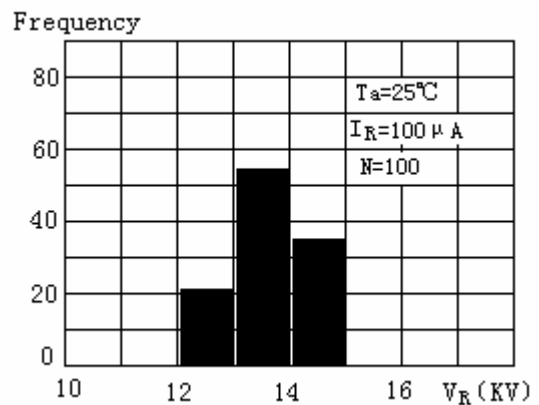
Electric Characteristic

Rated Value	Sign	Condition	2CL75	2CL77	Unit
Max. Forward Peak Voltage	V	$I_F=10mA$	50.0	62.5	V
Max. Reverse Recovery Time	t_{rr}	$I_F=2mA$ $I_R=4mA$	0.1		μS
Max. Reverse Leakage Current	I_{R1}	$V_R=V_{RRM}$ 25	2.0		μA
Max. Reverse Leakage Current	I_{R2}	$V_R=V_{RRM}$ 100	5.0		μA
Max. Junction Capacitor	C_j		2		pF

Characteristic Picture



**Reverse Recovery Time
Distribution (2CL71)**



**Avalanche Breakdown Voltage
Distribution (2CL71)**

Reverse Recovery Time Basic Test Circuit

