

**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.**

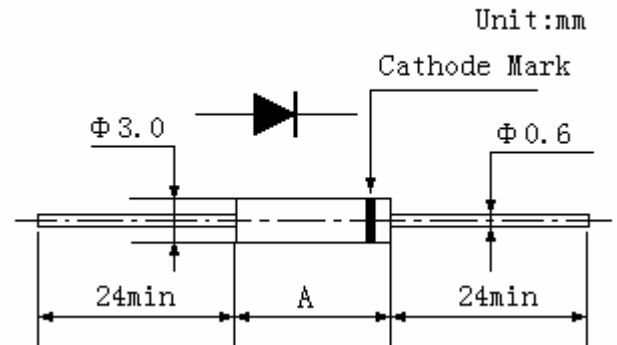
### Features:

- 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					$\mu S$
Max. Reverse Leakage Current	$I_{R1}$	$V_R=V_{RRM}$ , $25^{\circ}C$	2.0					$\mu A$
Max. Reverse Leakage Current	$I_{R2}$	$V_R=V_{RRM}$ , $100^{\circ}C$	5.0					$\mu A$
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.**

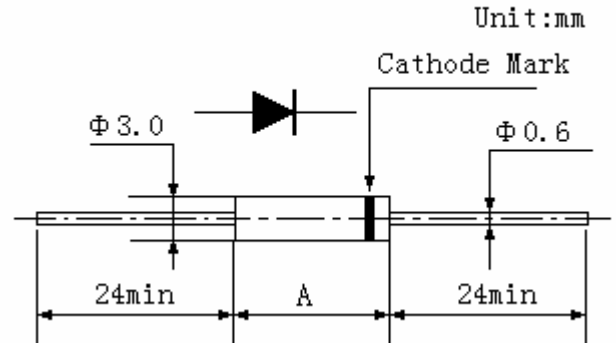
**Features:**

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**Application:**

- Television and FBT display
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- neon lamp power supply, voltage multiplier assembly
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■ **OUTLINE DRAWINGS**



Type	2CL75	2CL77
A	12.0	

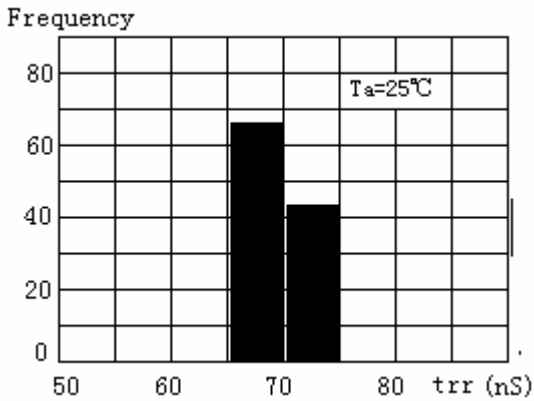
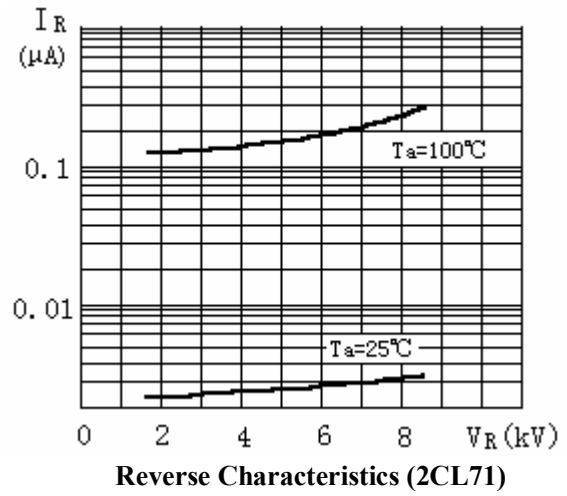
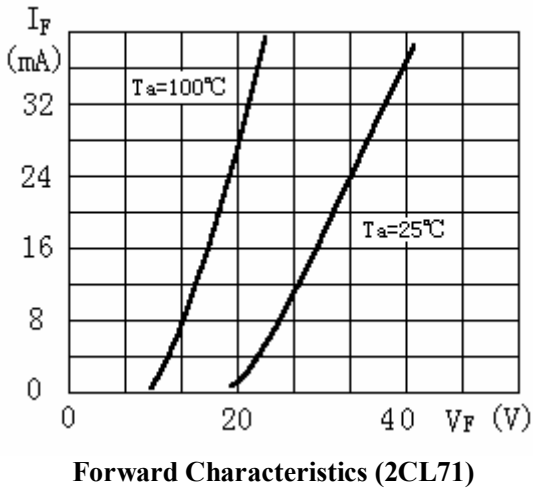
**MAX.RATED VALUE**

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

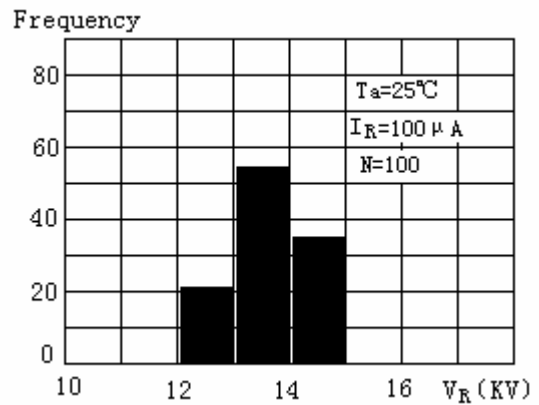
**Electric Characteristic**

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		$\mu S$
Max. Reverse Leakage Current	$I_{R1}$	$V_R=V_{RRM}$ 25	2.0		$\mu A$
Max. Reverse Leakage Current	$I_{R2}$	$V_R=V_{RRM}$ 100	5.0		$\mu A$
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**

