

## Fast Recovery High Voltage Diodes

### Features

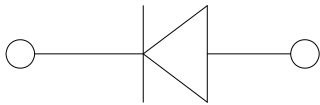
- Super small size
- High reliability
- High speed switching

### Typical Applications

Rectification for high voltage power supply of color T.V., CRT display, V.T.R camera and others

### Mechanical Data

- **Package:** HV-04  
Epoxy meets UL 94 V-0 flammability rating
- **Terminals:** Pure tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end



### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	2CL74A	2CL75A
Device marking code				T74A	T75A
Repetitive Peak Reverse Voltage	$V_{RRM}$	KV		14	16
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	KV		17	20
Average Forward Current	$I_{F(AV)}$	mA	60Hz half-sine wave, Resistance load, Ta=25°C	5	
Non-Repetitive Forward Surge Current	$I_{FSM}$	A	60Hz half-sine wave, 1 cycle, Ta = 25°C	0.5	
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=10mA$	51	60
Peak Reverse Current	$I_{RRM}$	$\mu A$	$V_{RM}=V_{RRM}$ , Ta=25°C	2	
			$V_{RM}=V_{RRM}$ , Ta=100°C	5	
Reverse Recovery time	$t_{rr}$	$\mu s$	$I_F=2mA, I_{RM}=4mA, I_{RR}=1mA$	0.08	
Operating Ambient Temperature	$T_a$	°C		-40 ~ +100	
Storage Temperature	$T_{stg}$	°C		-40 ~ +120	
Virtual Junction Temperature	$T_{(vj)}$	°C		120	



# 2CL74A THRU 2CL75A

## ■ Characteristics (Typical)

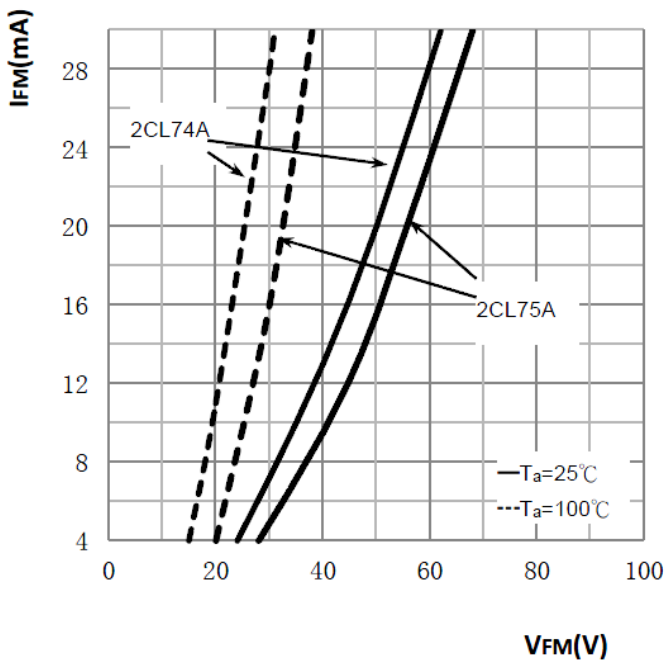


Figure 1. Forward characteristics

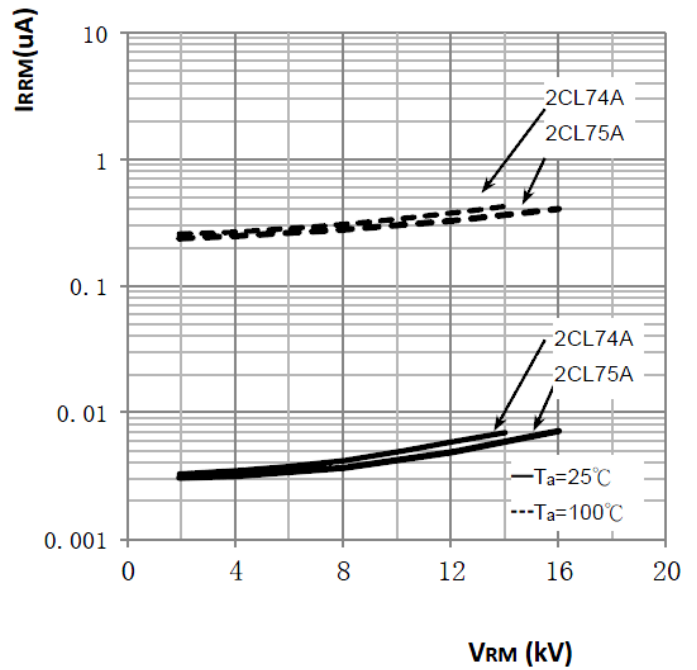


Figure 2. Reverse characteristics

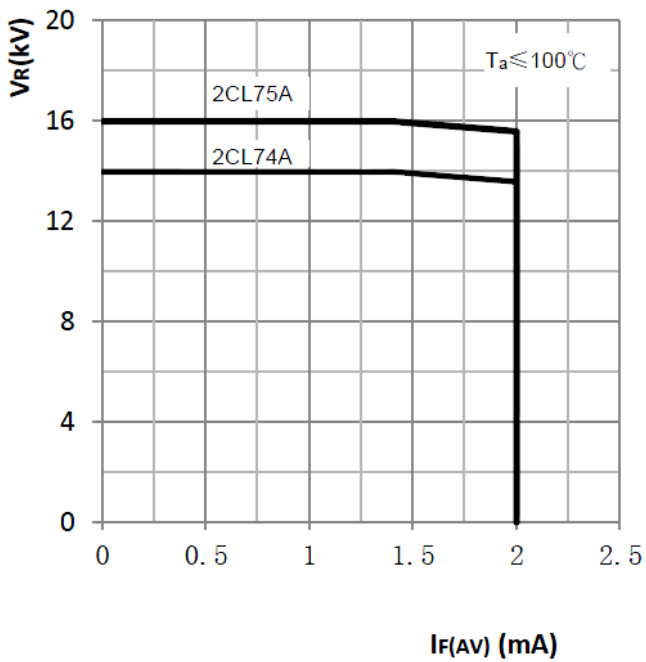


Figure 3.  $V_R$ - $I_{F(AV)}$  Curve

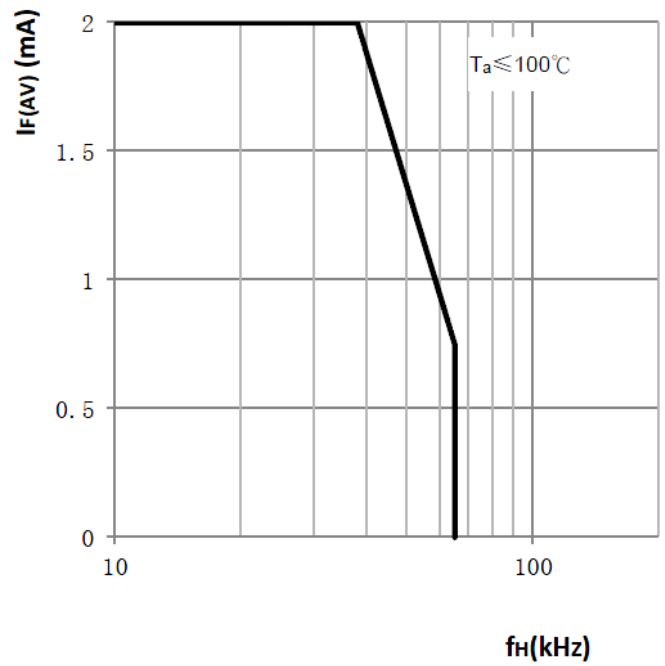
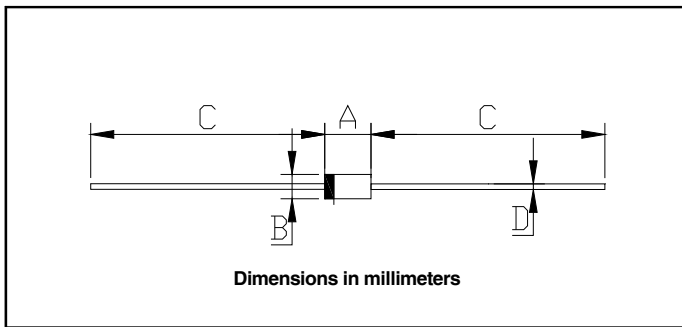


Figure 4.  $I_{F(AV)}$ - $f_H$  Curve



## 2CL74A THRU 2CL75A

### ■ Outline Dimensions



HV-04		
Dim	Min	Max
A	9.8	10.2
B	2.3	2.7
C	26	/
D	0.47	0.53



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