

Fast Recovery High Voltage Diodes

Features

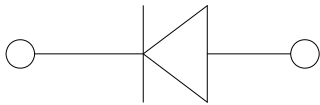
- Super small size
- High reliability
- High speed switching

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}	μA	$V_{RM}=V_{RRM}$, Ta=25°C	2	
			$V_{RM}=V_{RRM}$, Ta=100°C	5	
Reverse Recovery time	t_{rr}	μs	$I_F=2mA, I_{RM}=4mA, I_{RR}=1mA$	0.08	
Operating Ambient Temperature	T_a	°C		-40 ~ +100	
Storage Temperature	T_{stg}	°C		-40 ~ +120	
Virtual Junction Temperature	$T_{(vj)}$	°C		120	



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■ Characteristics (Typical)

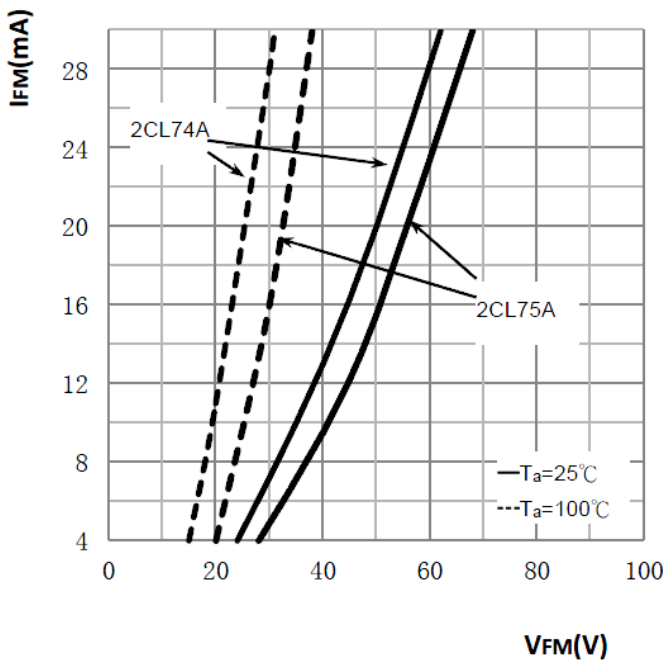


Figure 1. Forward characteristics

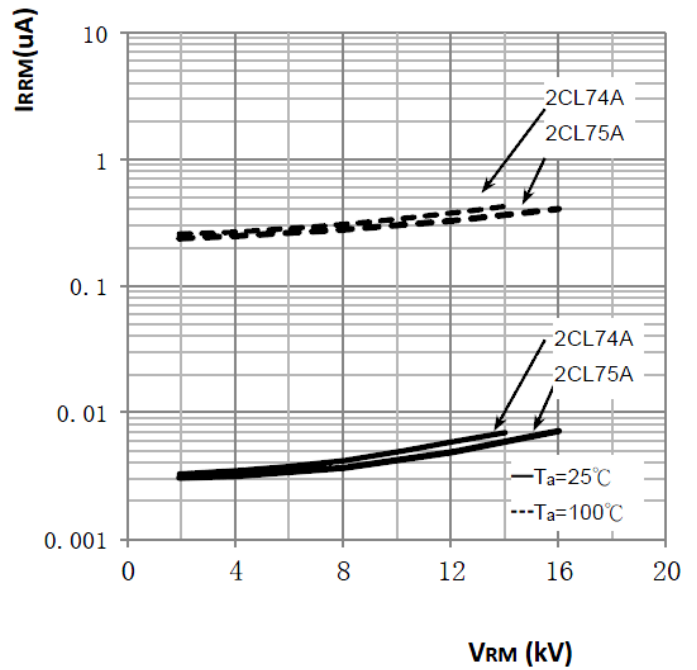


Figure 2. Reverse characteristics

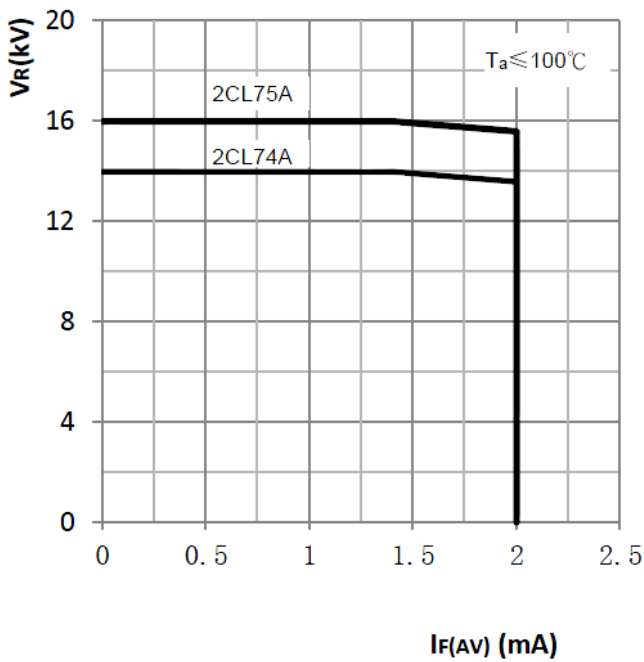


Figure 3. V_R - $I_{F(AV)}$ Curve

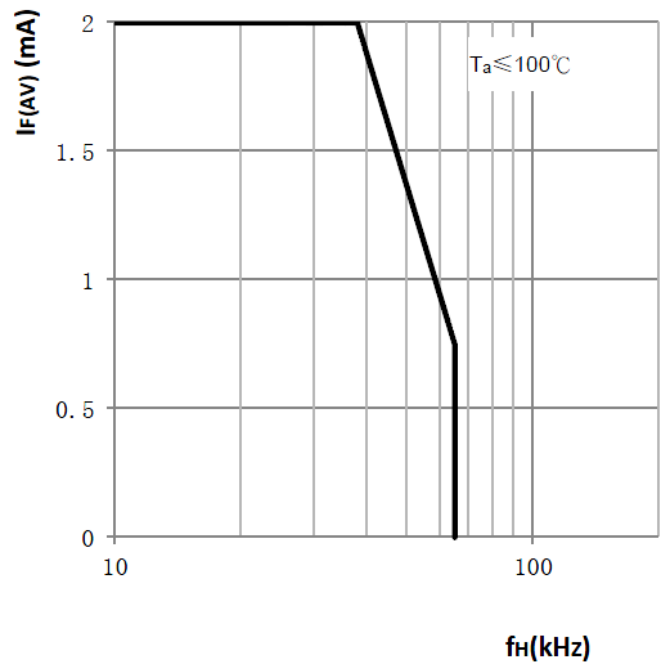
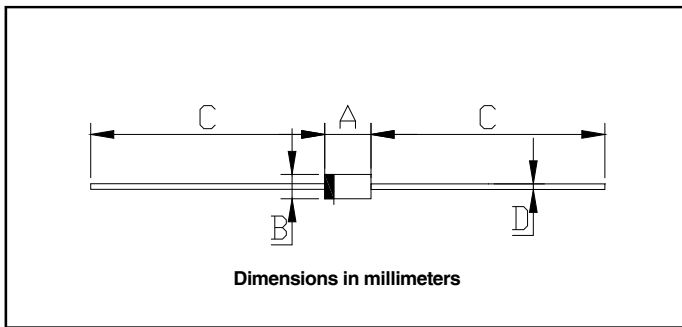


Figure 4. $I_{F(AV)}$ - f_H Curve



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■ 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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