

## FEATURES

- | Supersmall size

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- | High reliability

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- | High speed switching

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DO-206

## MECHANICAL DATA

- | Case: Molded Plastic Body

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- | Epoxy meets UL 94V-0 flammability rating

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- | Polarity: Color band denotes cathode end

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## APPROVALS

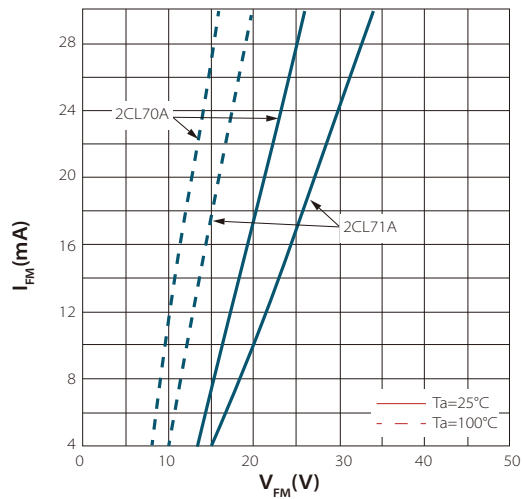
<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	Compliance with IEC61249-2-21:2003

## MAXIMUM RATINGS AND CHARACTERISTICS (T<sub>A</sub>=25°C)

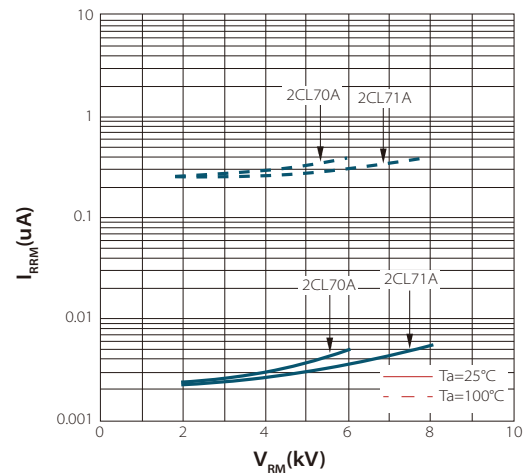
Parameter	Symbol	2CL70A	2CL71A	Unit
Marking		T70A	T71A	
Repetitive peak reverse voltage	V <sub>RRM</sub>	6	8	kV
Non-Repetitive peak reverse voltage	V <sub>RSM</sub>	8	10	kV
Average forward current 60HZ half-sine wave, Resistance load, Ta=25°C	I <sub>F(AV)</sub>	5		mA
Surge(Non-repetitive) forward current 60HZ half-sine wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	0.5		A
Peak forward voltage I <sub>FM</sub> =10mA	V <sub>FM</sub>	24	30	V
Peak reverse current V <sub>RM</sub> =V <sub>RRM</sub>	I <sub>RRM</sub>	T <sub>A</sub> =25°C		uA
		T <sub>A</sub> =100°C		
Reverse recovery time I <sub>F</sub> =2mA, I <sub>RM</sub> =4mA	t <sub>rr</sub>	0.08		uS
Operating ambient temperature	T <sub>a</sub>	-40 ~ +100		°C
Storage temperature	T <sub>stg</sub>	-40~+120		°C
Virtual junction temperature	T <sub>(VJ)</sub>	120		°C

# CHARACTERISTIC CURVES

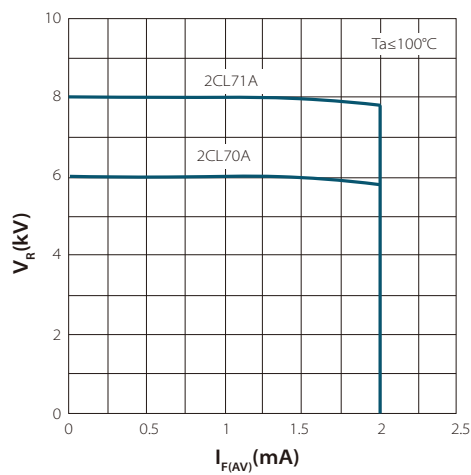
**Fig.1 Forward Characteristics**



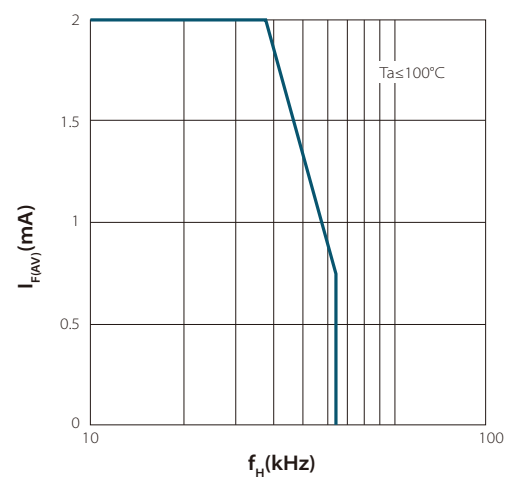
**Fig.2 Reverse Characteristics**



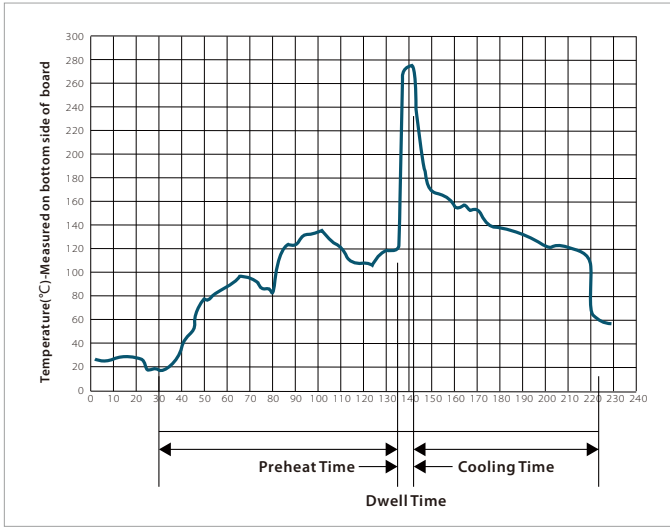
**Fig.3  $V_R$ - $I_{F(AV)}$  Curve**



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

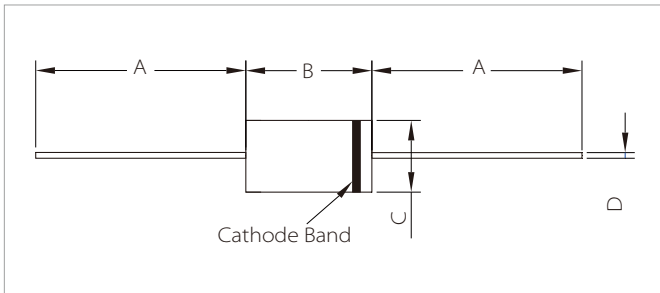


## WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

## DO-206 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.75	-	1.013	-
B	6.3	6.7	0.248	0.264
C	2.3	2.7	0.094	0.106
D	0.47	0.53	0.019	0.021

## ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
2CL70A-2CL71A	DO-206	5000PCS	13"

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