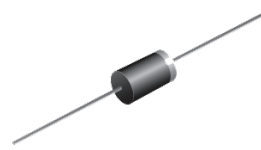


FEATURES

- Supersmall size
- High reliability
- High speed switching
- Meet AEC-Q101 Requirements



DO-206

MECHANICAL DATA

- Case: Molded Plastic Body
- Epoxy meets UL 94V-0 flammability rating
- Polarity: Color band denotes cathode end

APPROVALS

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

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

Parameter		Symbol	2CL70AQ	2CL71AQ	Unit
Marking			T70A	T71A	
Repetitive peak reverse voltage		V _{RRM}	6	8	kV
Non-Repetitive peak reverse voltage		V _{RSM}	8	10	kV
Average forward current 60HZ half-sine wave, Resistance load, Ta=25°C		I _{F(AV)}	5		mA
Surge(Non-repetitive) forward current 60HZ half-sine wave, 1cycle,Ta=25°C		I _{FSM}	0.5		A
Peak forward voltage I _{FM} =10mA		V _{FM}	24	30	V
Peak reverse current V _{RM} =V _{RRM}	T _A =25°C	I _{RRM}	2		μA
	T _A =100°C		5		
Reverse recovery time I _F =2mA, I _{RM} =4mA		t _{rr}	0.08		uS
Operating ambient temperature		T _a	-40 ~ +100		°C
Storage temperature		T _{stg}	-40~+120		°C
Virtual junction temperature		T _(VJ)	120		°C

CHARACTERISTIC CURVES

Fig.1 Forward Characteristics

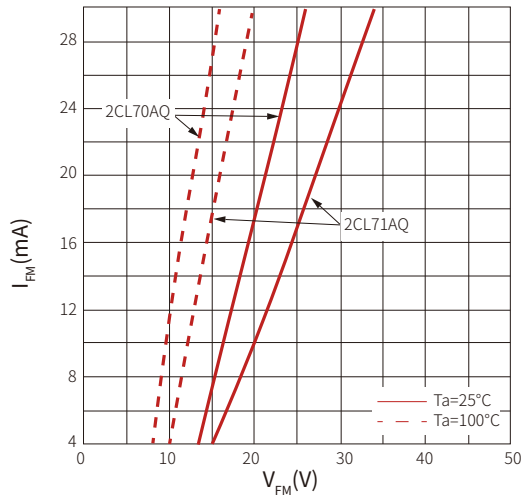


Fig.2 Reverse Characteristics

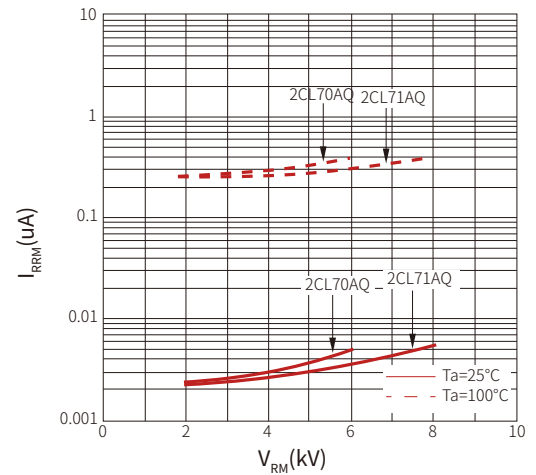


Fig.3 V_R - $I_{F(AV)}$ Curve

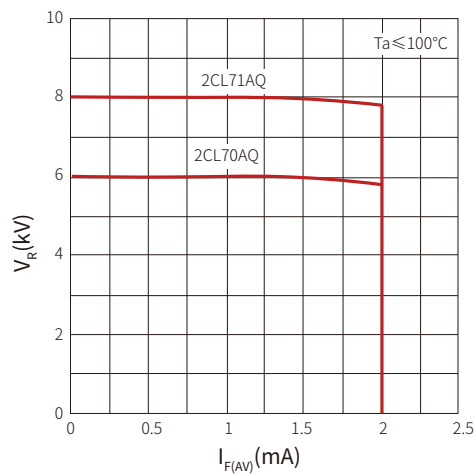
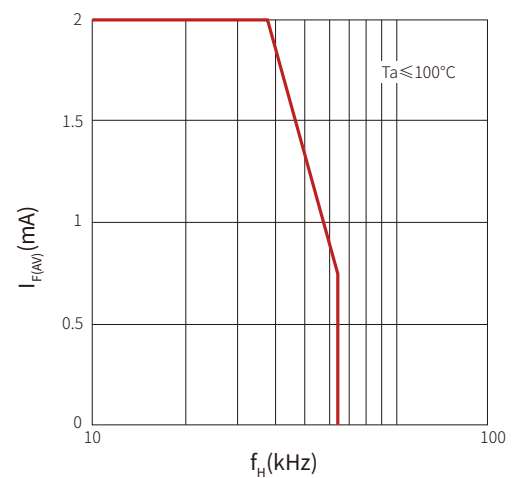
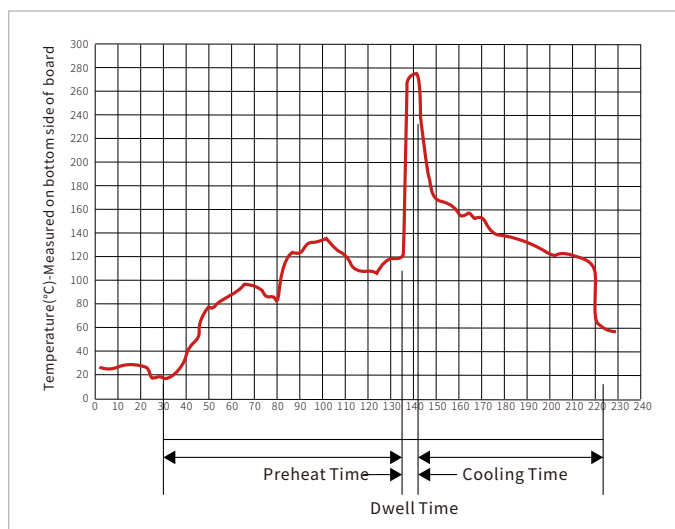


Fig.4 $I_{F(AV)}$ - f_H Curve

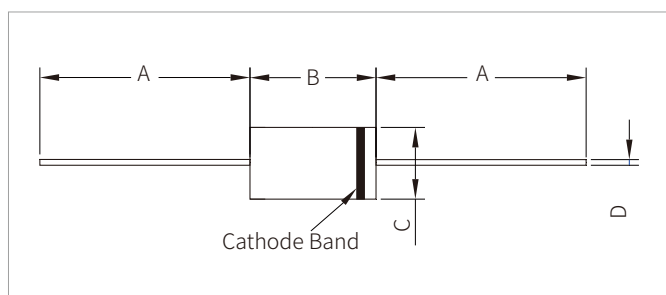


WAVE SOLDERING



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
2CL70AQ-2CL71AQ	DO-206	5000PCS	13"

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By QR Code

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