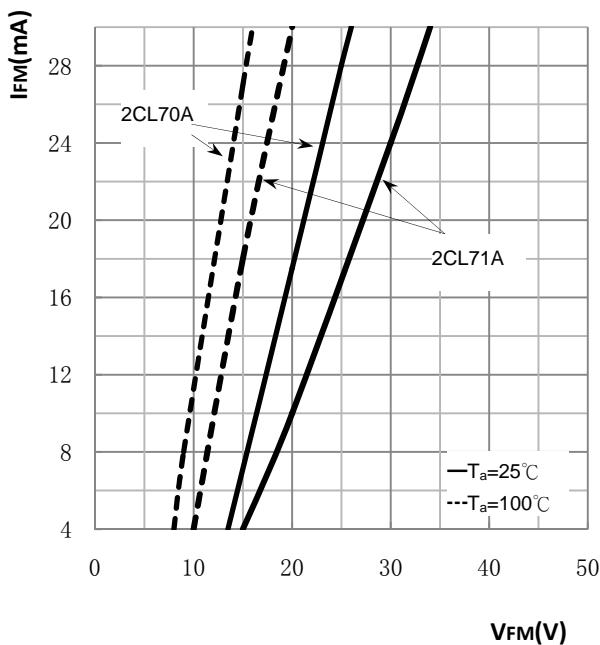
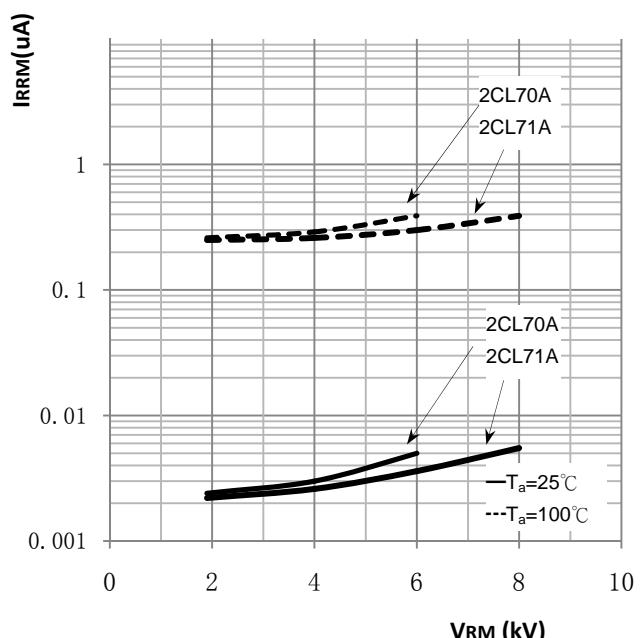
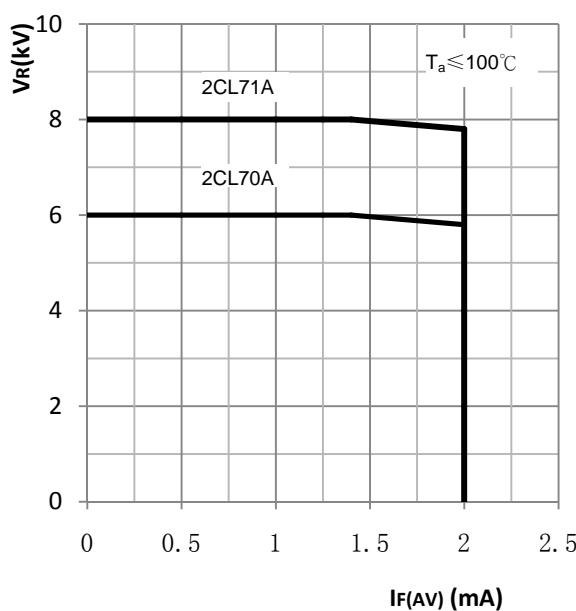
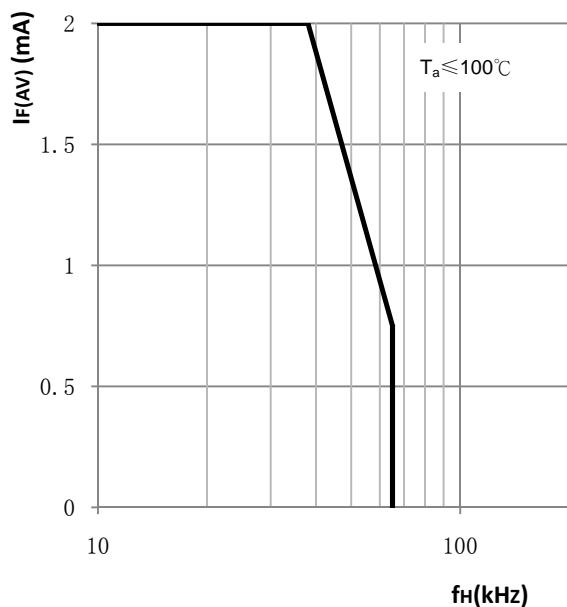
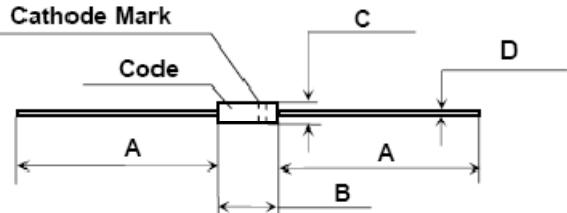


<u>Fast recovery high voltage diodes</u>		Features <ul style="list-style-type: none"> ● Supersmall size ● High reliability ● High speed switching 																								
		Applications Rectification for high voltage power supply of color T.V、CRT display、V.T.R camera and Others																								
Primary characteristics		Mechanical data <ul style="list-style-type: none"> ● Case: Molded Plastic Body ● Epoxy meets UL 94V-0 flammability rating ● Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test. ● Polarity: Color band denotes cathode end 																								
<table border="1"> <thead> <tr> <th>Type</th><th>2CL70A</th><th>2CL71A</th></tr> </thead> <tbody> <tr> <td>I_{F(AV)}</td><td colspan="2">5mA</td></tr> <tr> <td>V_{RRM}</td><td>6kV</td><td>8kV</td></tr> <tr> <td>I_{FSM}</td><td colspan="2">0.5A</td></tr> <tr> <td>I_{RM}</td><td colspan="2">2uA</td></tr> <tr> <td>V_{FM}</td><td>24V</td><td>30V</td></tr> <tr> <td>T_J max.</td><td colspan="2" rowspan="2">120°C</td></tr> </tbody> </table>		Type	2CL70A	2CL71A	I _{F(AV)}	5mA		V _{RRM}	6kV	8kV	I _{FSM}	0.5A		I _{RM}	2uA		V _{FM}	24V	30V	T _J max.	120°C					
Type	2CL70A	2CL71A																								
I _{F(AV)}	5mA																									
V _{RRM}	6kV	8kV																								
I _{FSM}	0.5A																									
I _{RM}	2uA																									
V _{FM}	24V	30V																								
T _J max.	120°C																									
Maximum rating (Ta=25°C unless otherwise noted)																										
Parameter		Symbol	2CL70A	2CL71A	Unit																					
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,T _a =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}	I _{RRM}	2		μA																					
	T _a =25°C		5																							
T _a =100°C																										
Reverse recovery time	I _F =2mA, I _{RM} =4mA	t _{rr}	0.08		μs																					
Operating ambient temperature		T _a	-40 ~ +100		°C																					
Storage temperature		T _{stg}	-40 ~ +120		°C																					
Virtual junction temperature		T _(vj)	120		°C																					

Typical characteristics

Figure 1. Forward characteristics

Figure 2. Reverse characteristics

Figure 3. VR-IF(AV) Curve

Figure 4. IF(AV)-fH Curve

Package outline dimensions

Cathode Mark



Dim.	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	1.204		26	
B	0.248	0.264	6.3	6.7
C	0.094	0.106	2.3	2.7
D	0.019	0.021	0.47	0.53

Marking

Type	Code	Cathode Mark
2CL70A	T70A	▲▲
2CL71A	T71A	▲