

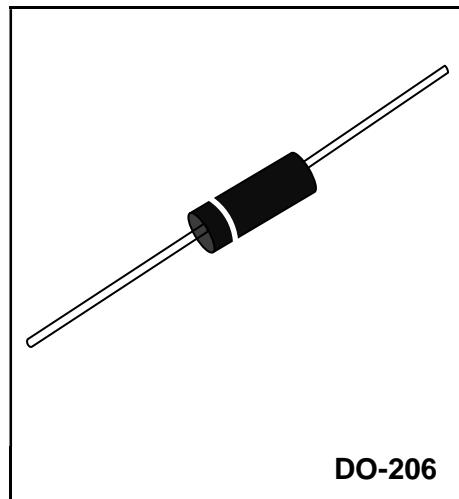
**Fast recovery high voltage diodes**

**Reverse Voltage -6KV to 8KV**

**Forward Current -5mA**

### FEATURES

- ◆ Supersmall size
- ◆ High reliability
- ◆ High speed switching
- ◆ Epoxy meets UL94V-0 flammability rating



**DO-206**

### MECHANICAL DATA

- ◆ Case: Molded Plastic Body
- ◆ Terminals: Pure tinplated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.

Parameter		Symbols	2CL70A	2CL71A	Units
Repetitive peak reverse voltage		$V_{RRM}$	6	8	<b>KV</b>
Non-Repetitive peak reverse voltage		$V_{RMS}$	8	10	<b>KV</b>
Average forward current	60Hz half-sine wave, Resistance load, $T_a=25^\circ C$	$I_{F(AV)}$	5		<b>mA</b>
Surge(Non-repetitive)forward current	60Hz half-sine wave, 1cycle, $T_a=25^\circ C$	$I_{FSM}$	0.5		<b>A</b>
Peak forward voltage	$I_{FM}=10mA$	$V_{FM}$	24	30	<b>V</b>
$T_a=25^\circ C$		$I_{RRM}$	2		$\mu A$
$T_a=100^\circ C$			5		
Reverse recovery time	$I_F=2mA, I_{RM}=4mA$	$T_{rr}$	0.08		<b>uS</b>
Operating ambient temperature		$T_a$	-40 ~ +100		<b>°C</b>
Storage Temperature Range		$T_{stg}$	-40 ~ +120		<b>°C</b>
Virtual junction temperature		$T_{(vj)}$	120		<b>°C</b>

Typical characteristics

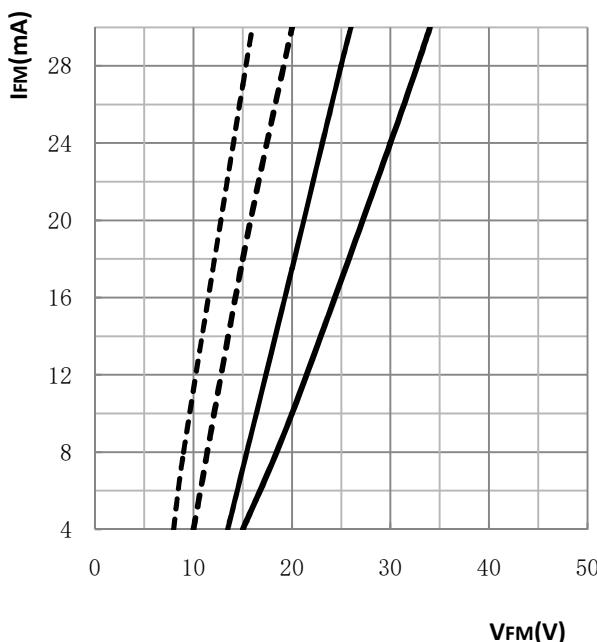


Figure 1. Forward characteristics

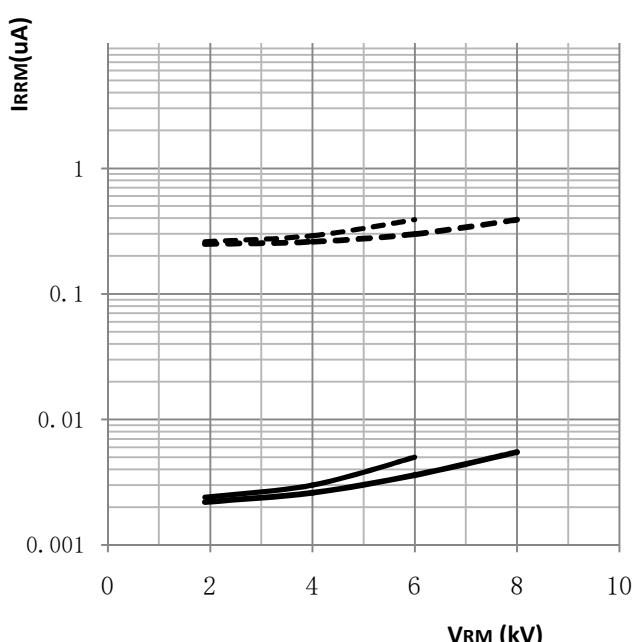


Figure 2. Reverse characteristics

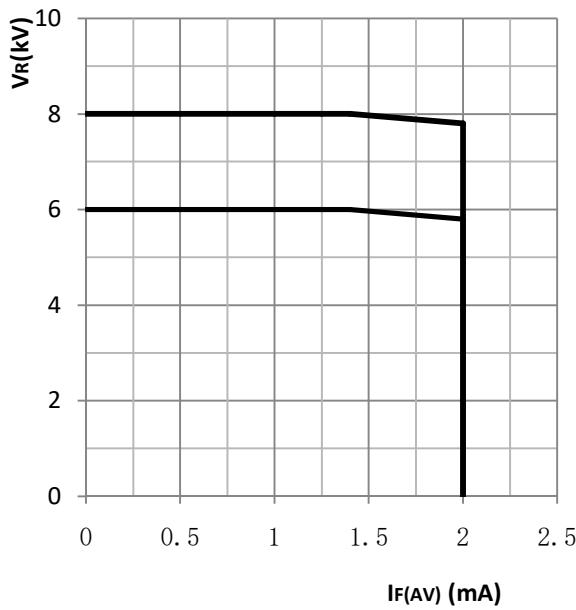


Figure 3.  $V_R$ - $I_{F(AV)}$  Curve

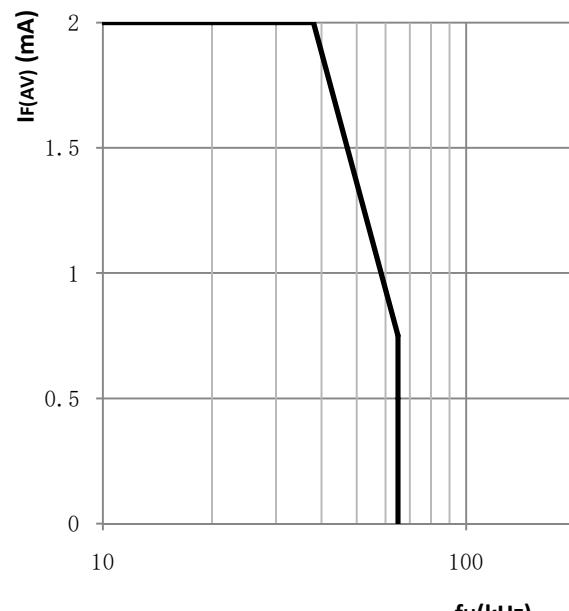
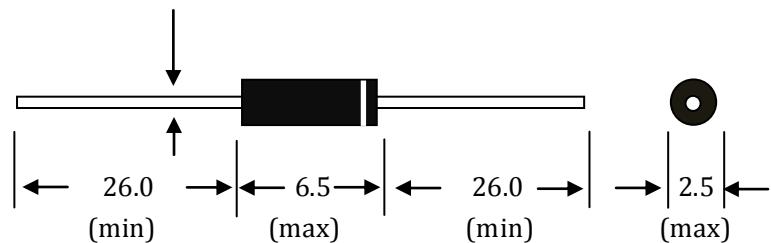


Figure 4.  $I_{F(AV)}$ - $f_H$  Curve

## Package Outline DO-206

Lead Diameter  $0.5 \pm 0.03$ 

## Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-206	BOX	5000	EIA-481-1