

## 2CL100KV/2.5A Product Data

High voltage rectifier diodes 2CL100KV/2.5A series adopt high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

### ■ Feature

- Avalanche characteristic
- More sizes to choose
- Epoxy resin molded in vacuum, have anticorrosion in the surface
- Operating junction temperature Tj: -40°C—+150°C

### ■ Application

- High voltage rectifier used in electrostatic cleaning
- High voltage generator
- High voltage testing equipment
- General purpose high voltage rectifier, voltage multiplier assembly

### ■ Maximum Ratings

Item	Symbol	Conditions	2CL	Unit
			100KV/2.5A	
Repetitive Peak Reverse Voltage	$V_{RRM}$	Ta=25°C $I_R=5\mu A$	100	kV
Average Forward Current	$I_O$		2.5	A
Surge Forward Current	$I_{FSM}$	(50Hz Half-sine Wave , Resistance load @ $T_{break}=50^\circ C$ )	120	A
Operating Junction Temperature	Tj	Halfsine wave peak voltage	-40—+150	°C
Operating Ambient Temperature	Tc		100	°C
Storage Temperature	Tstg		-40—+120	°C

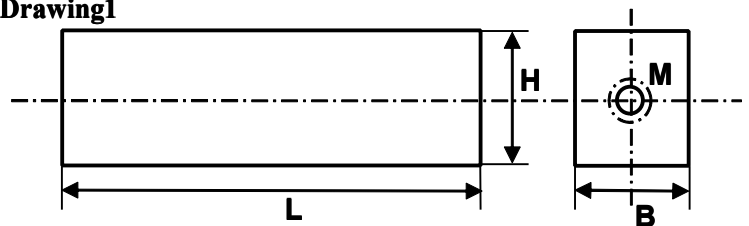
### ■ Electrical Characteristics

Rated Value	Symbol	Conditions	2CL	Unit
			100KV/2.5A	
Forward Peak Voltage Max (Reference Value)	V	<b><math>I_F=2.5A</math> 40°C</b>	135	V
Peak Reverse Current (Reference Value)	$I_{R1}$	$V_R=V_{RRM}$ , 25°C	5.0	$\mu A$
	$I_{R2}$	$V_R=V_{RRM}$ , 100°C	50.0	$\mu A$

### ■ Dimension

Type	L	B	H	Electrode
2CL100KV/2.5A	250	50	20	M6

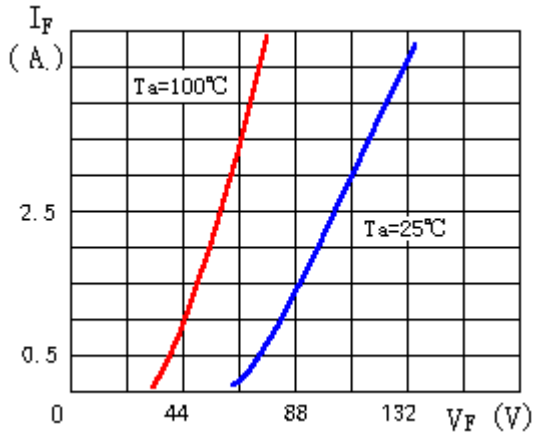
Drawing1



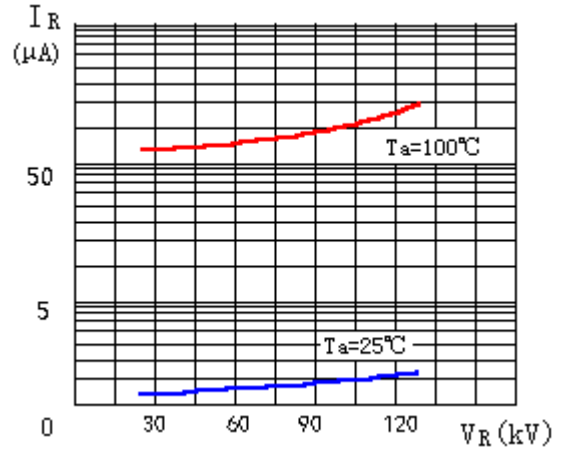
**Notice:**

**Above is standard size, customized size is acceptable.**

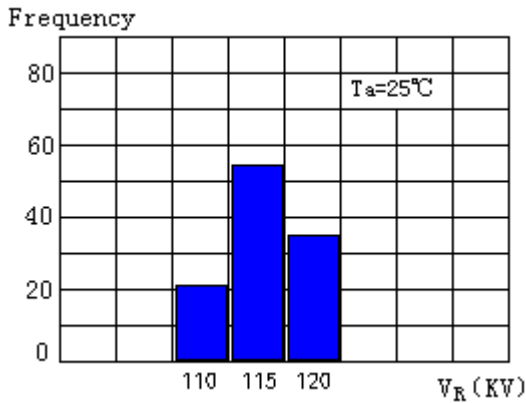
**Characteristic Curve**



Forward Characteristics



Reverse Characteristics



Avalanche Breakdown Voltage Distribution

**Reverse Recovery Time Basic Test Circuit**

