2CL120KV/2A Product Data

High voltage rectifier diodes 2CL120KV/2A 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℃—+150℃

■ 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
			120KV/2A	
Repetitive Peak Reverse Voltage	V_{RRM}	Ta=25℃ I_R=5μA	120	kV
Average Forward Current	I_O		2	A
Surge Forward Current	I_{FSM}	（50Hz Half-sine Wave , Resistance load @T_{break}=50℃）	120	A
Operating Junction Temperature	Tj	Halfsine wave peak voltage	-40—+150	℃
Operating Ambient Temperature	Tc		100	℃
Storage Temperature	Tstg		-40—+120	℃

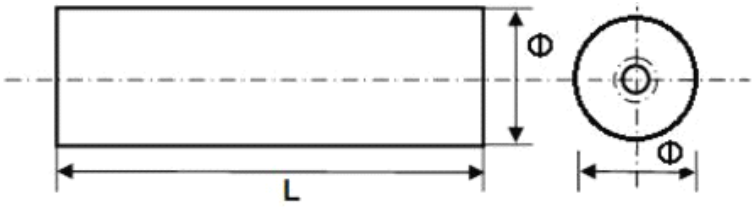
■ Electrical Characteristics

Rated Value	Sign	Conditions	2CL	Unit
			120KV/2A	
Forward Peak Voltage Max (Reference Value)	V	**I_F=2.5A 40℃**	145	V
Peak Reverse Current (Reference Value)	I_{R1}	V_R=V_{RRM} ， 25℃	5.0	μA
	I_{R2}	V_R=V_{RRM} ， 100℃	50.0	μA

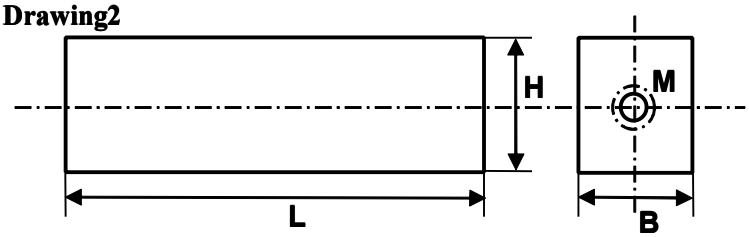
■ Dimension

Type1	L	Φ		Electrode
2CL120KV/2A	400	35		M10/M12
Type2	**L**	**B**	**H**	**Electrode**
2CL120KV/2A	240	50	30	M10/M12

Drawing1



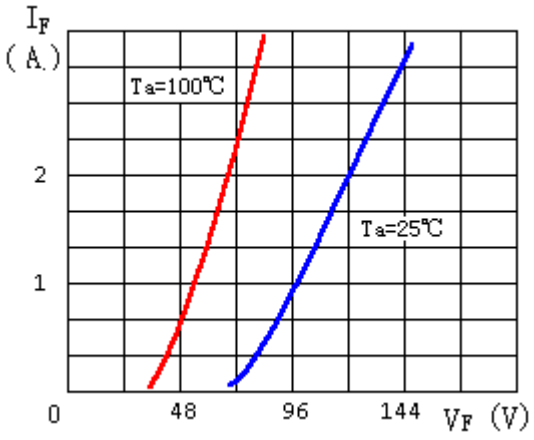
Drawing2



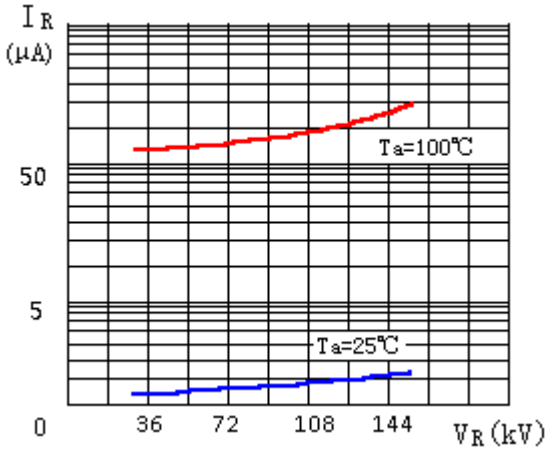
Notice:

Above is standard size, customized size is acceptable.

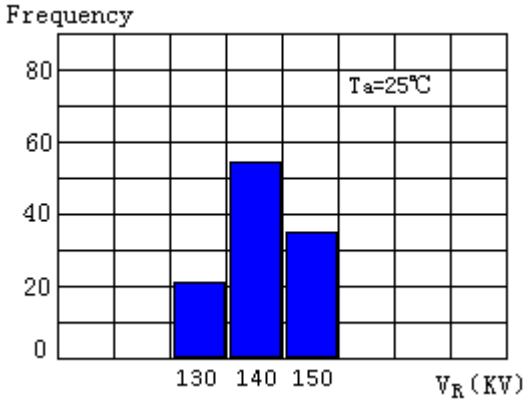
■ Characteristic Curve



Forward Characteristics



Reverse Characteristics



Avalanche Breakdown Voltage Distribution

Reverse Recovery Time Basic Test Circuit