

2CLG300KV/1.0A Product Data

High voltage rectifier diodes 2CLG300KV/1.0A 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

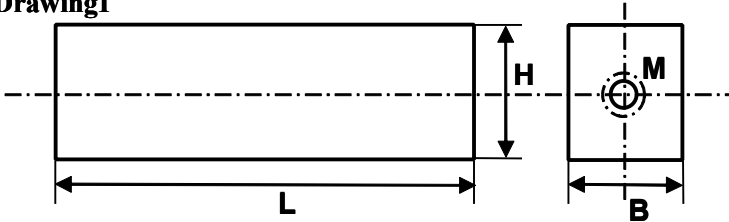
Item	Symbol	Conditions	2CLG	Unit
			300KV/1A	
Repetitive Peak Reverse Voltage	V_{RRM}	Ta=25°C I _R =5μA	300	kV
Average Forward Current	I _O		1.0	A
Surge Forward Current	I _{FSM}	50Hz Half-sine Wave , Resistance load @T _{break} =50°C	25	A
Operating Junction Temperature	Tj	Halfsine wave peak voltage	-40—+150	°C
Operating Ambient Temperature	Tc		100	°C
Storage Temperature	Tstg		-40—120	°C

■ Electrical Characteristics

Rated Value	Symbol	Conditions	2CLG	Unit
			300KV/1A	
Forward Peak Voltage Max (Reference Value)	V _F	I_F=1.0A 40°C	350	V
Reverse Recovery Time Max	T _{rr}		100	nS
Peak Reverse Current (Reference Value)	I _{R1}	V _R =V _{RRM} , 25°C	5.0	μA
	I _{R2}	V _R =V _{RRM} , 100°C	50.0	μA

■ Dimension (Unit: mm)

Drawing1

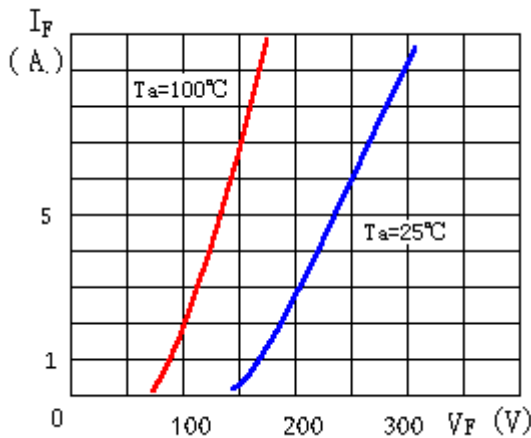


Type	L	B	H	Electrode
2CLG300KV/1A	240	35	25	M5

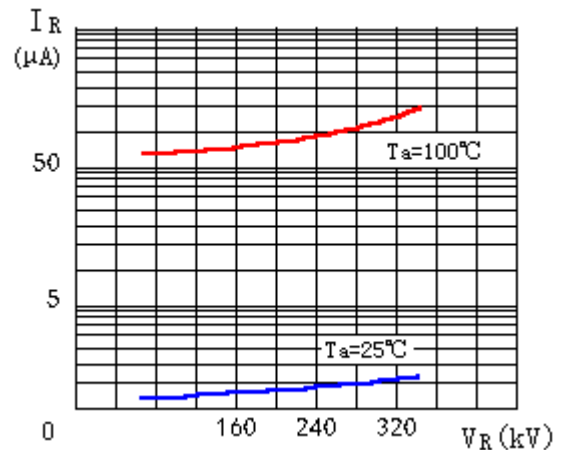
Notice:

Please do cooling treatment if the surface temperature is higher than 60°C when the diode rectifier is working. It will be better used in oil immersion conditions.

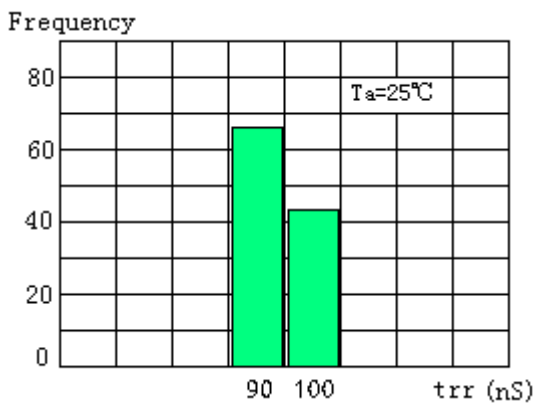
■ Characteristic Curve



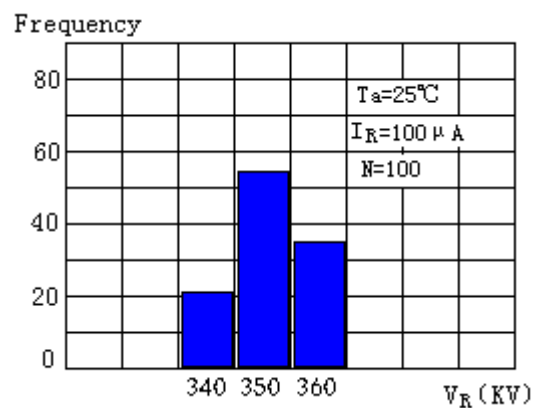
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

Reverse Recovery Time Basic Test Circuit

