

Data Sheet

2CLHC10KV-2A

2CLHC10KV-2A High voltage silicon assembly adopts high reliable mesa structure with the diffusion craft work, and epoxy resin molded in a compact structure.

▼ Feature

- ❖ Avalanche Characteristic
- ❖ Excellent surge current resistance
- ❖ High speed switch response characteristics
- ❖ Epoxy resin molded in vacuum, have anti-corrosion in the surface
- ❖ Tj:50°C—+175°C
- ❖ Special high temperature resistant chip that can withstand harsh working conditions

▼ 2D

Graphical Representation



	Item	Symbol	Unit	Conditions	Rating
Absolute Maximum Ratings	Repetitive Peak Reverse Voltage	V_{RRM}	KV	Ta=25°C $I_R=2.0\mu A$	10
	Average Forward Current	$I_{F(AV)}$	A	50Hz Half-sine Wave , Resistance load @T _{break} =50°C	2.0
	Reverse Recovery Time	trr	nS		--
	Surge Forward Current	I_{FSM}	A	0.01S @ Half-Sine wave 50Hz	80
	Operating Ambient Temperature	T _a	°C		-40 ~ +150
	Storage Temperature	T _{stg}	°C		-40 ~ +120
Electrical Characteristics	Forward Peak Voltage	V_{FM}	V	@ Ta=25°C $I_F=2.0A$	≥12
	Peak Reverse Current	I_{RRM1}	μA	@ Ta=25°C $V_{RM}=V_{RRM}$	2.0
		I_{RRM2}	μA	@ Ta=100°C $V_{RM}=V_{RRM}$	20.0

▼ Outline Drawings

(Unit : mm)

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Size	L	B	H	M
Fig.1.1	55	20	15	M5
Fig.1.2	90	25	20	M5
Fig.1.3	120	25	20	M5

Fig.1.

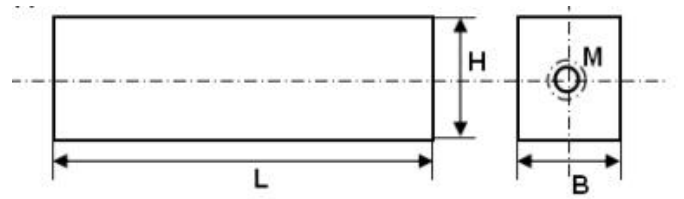
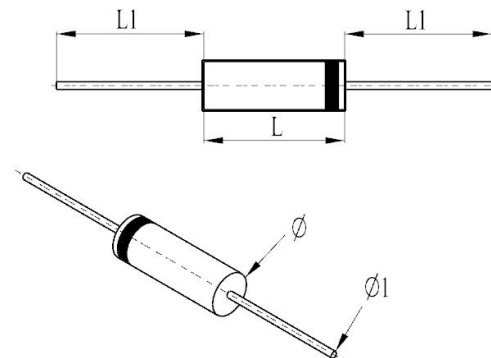
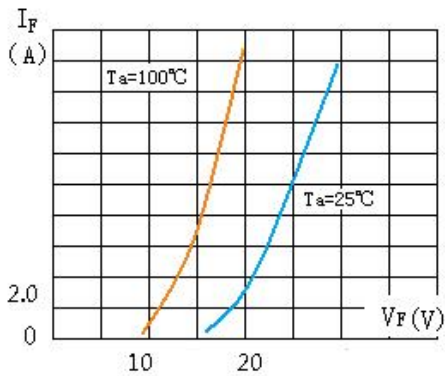


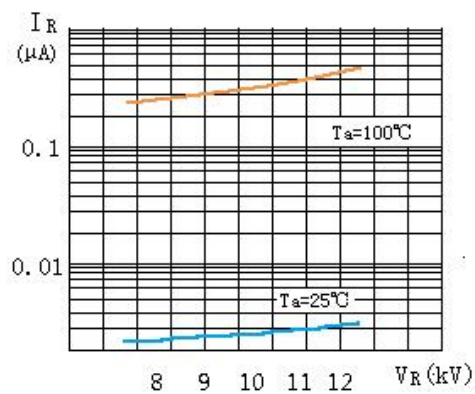
Fig.2.



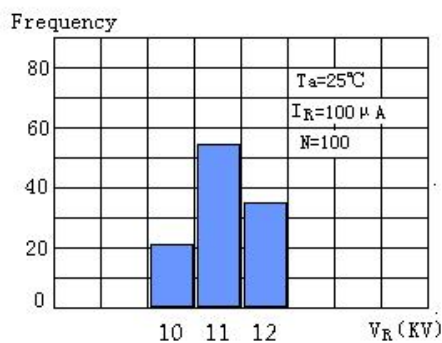
▼ Characteristic Curve



(2CLHC10KV-2A)
Forward Characteristics



(2CLHC10KV-2A)
Reverse Characteristics



(2CLHC10KV-2A)
Avalanche Breakdown

