2CL15KV/400mA Products Data

High voltage rectifier diodes 2CL15KV/400mA Series adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

■ Maximum Ratings

■ Feature

- Avalanche characteristic
- More sizes to choose
- Epoxy resin molded in vacuum, have anticorrosion in the surface
- Operating Junction Temperature Tj: -40℃—+150℃

■ Application

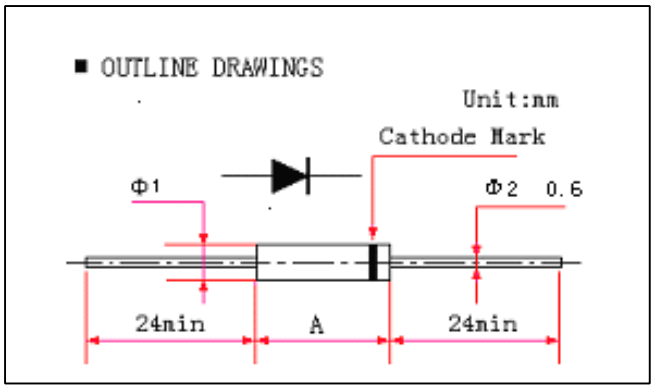
- High voltage rectifier used in electrostatic cleaning
- High voltage generator
- High voltage testing equipment
- General purpose high voltage rectifier, voltage multiplier assembly

Item	Symbol	Conditions	2CL	Unit
			15KV/400mA	
Repetitive Peak Reverse Voltage	V_{RRM}	Ta=25℃ I_R=0.5μA	15	kV
Average Forward Current	I_O		400	mA
Surge Forward Current	I_{FSM}	（50Hz Half-sine Wave , Resistance load @T_{break}=50℃）	20	A
Operating Junction Temperature	Tj	Halfsine wave peak voltage	150	℃
Operating Ambient Temperature	Tc		100	℃
Storage Temperature	Tstg		-40—120	℃

■ Electrical Characteristics

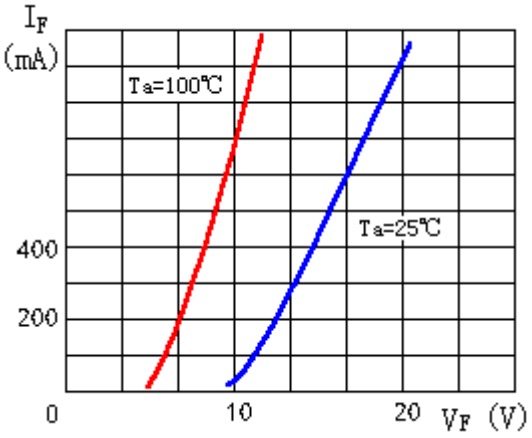
Rated Value	Sign	Condition	2CL	Unit
			15KV/400mA	
Forward Peak Voltage Max (Reference Value)	V	I_F=400mA,40℃	18	V
Reverse Recovery Time Max	Trr	I_F=2mA I_R=4mA	100	nS
Peak Reverse Current (Reference Value)	I_{R1}	V_R=V_{RRM} ， 25℃	2.0	μA
	I_{R2}	V_R=V_{RRM} ， 100℃	20.0	μA
Junction capacitance Max	Cj		2	pF

■ Dimensions

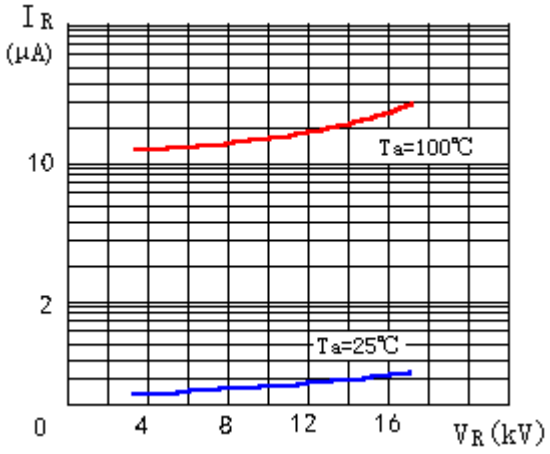


Type	A(mm)	Φ(mm)
2CL15KV/400mA	15	4.5

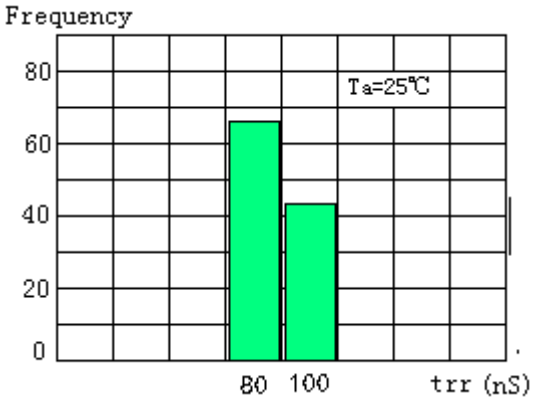
■ Characteristic Curve



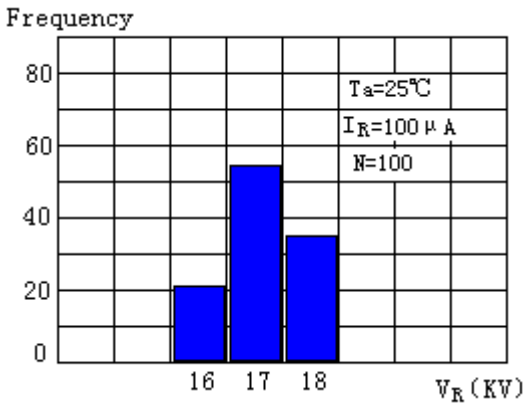
Forward Characteristics



Reverse Characteristics



Reverse Recovery Time Distribution



Avalanche Breakdown Voltage Distribution

Reverse Recovery Time Basic Test Circuit