

2CL69~82 型高压二极管采用高可靠性的台面结构及扩散工艺，环氧树脂真空灌注成密闭的封装外形。

High voltage rectifier diodes 2CL69~82 Series adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

最大额定值 (Maximum ratings)

特点 Features

- 雪崩特性 Avalanche characteristic
- 更多的外形尺寸可选 More sizes to choose
- 采用环氧树脂真空封装，表面具有抗腐蚀性 epoxy resin molded in vacuum, have anticorrosion in the surface
- 工作结温 -40 — +150 T_j: -40 — +150

应用 Applications

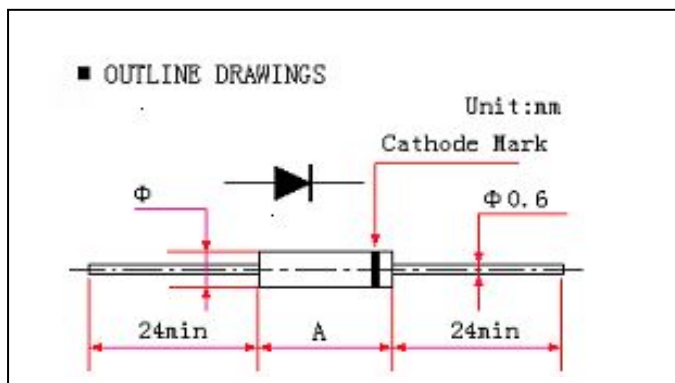
- 静电除尘用高压整流 High voltage rectifier used in electrostatic cleaning
- 高压发生器 High voltage generator
- 高压测试装置 High voltage testing equipment
- 一般高压电源整流，倍压装置 General purpose high voltage rectifier, voltage multiplier assembly

参数名称	符号	测试条件	2CL											单位
			69	70	71	72	73	74	75	76	77	79	82	
反向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	T _a =25 I _r =0.5μA	4	6	8	10	12	14	16	18	20	25	30	kV
正向平均整流电流 Average Forward Current	I _F		5.0											mA
非重复峰值浪涌电流 Surge Forward Current	I _{FSM}	正弦半波 50Hz, 电阻负载, T _{break} =50 (50Hz Half-sine Wave, Resistance load @ T _{break} =50)	0.5											A
工作结温 Junction Operating Temperature	T _j	正弦半波峰值电压 Half-sine wave peak voltage	125											
允许工作环境温度 Operating Ambient Temperature	T _c		100											
保存温度 Storage Temperature	T _{stg}		-40—120											

电气特性 (Electrical characteristics)

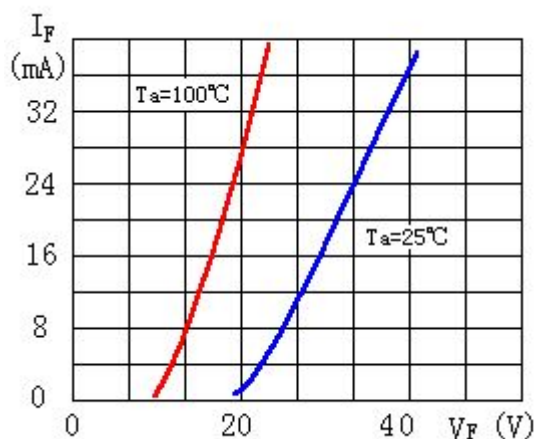
Rated Value	Sign	Condition	2CL											Unit
			70	70	71	72	73	74	75	76	77	79	82	
最大正向峰值电压 Forward Peak Voltage Max	V	I _F =10mA	18	20	25	30	35	40	43	45	45	50	55	V
最大反向恢复时间 Reverse Recovery Time Max	T _{rr}	I _F =2mA I _R =4mA	0.08											μs
最大反向漏电流 Peak Reverse Current	I _{R1}	V _R =V _{RRM} , 25	2.0											μA
	I _{R2}	V _R =V _{RRM} , 100	5.0											μA
最大结电容 Junction capacitance Max	C _j		2											pF

外形图示及尺寸 Outline and Sizes



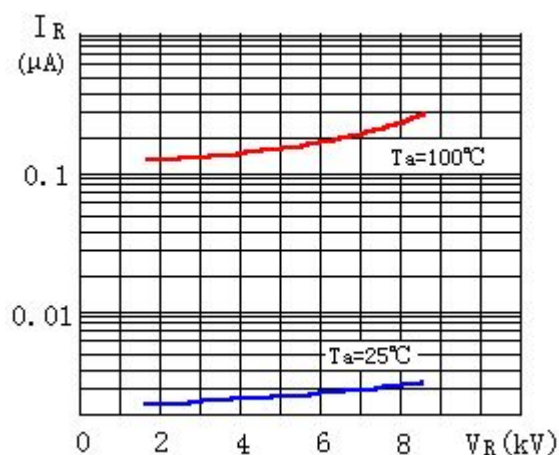
Type	A	
2CL69	8	3
2CL70		
2CL71		
2CL72	10	
2CL73		
2CL74		
2CL75	12	
2CL76		
2CL77		
2CL79		
2CL82		

特性曲线 Electric Characteristics



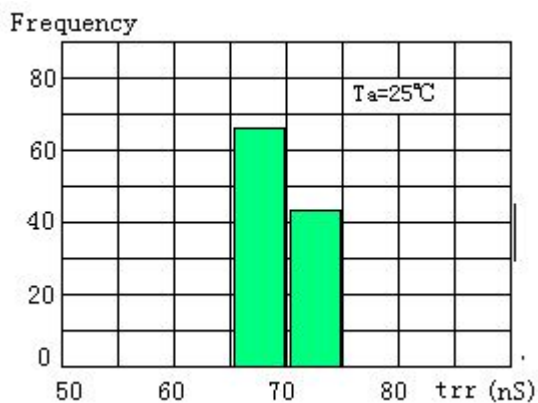
正向特性曲线

Forward Characteristics (2CL71)



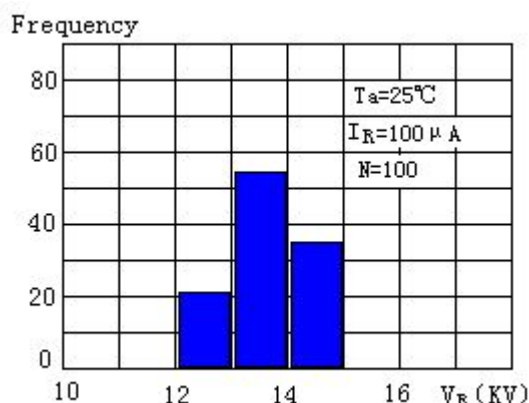
反向特性曲线

Reverse Characteristics (2CL71)



反向恢复时间分布

Reverse Recovery Time Distribution (2CL71)



反向雪崩电压分布

Avalanche Breakdown Voltage Distribution (2CL71)

反向恢复时间基本测试电路

Reverse Recovery Time Basic Test Circuit

