

产品参数 Products data sheet

2CL2FF~2FM 型高压二极管采用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 2CL2FF~2FM Series adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact sturcture.

■ 特点 Feature

- 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 $-40^{\circ}\text{C} \rightarrow +150^{\circ}\text{C}$ $T_j: -40^{\circ}\text{C} \rightarrow +150^{\circ}\text{C}$

■ 应用 Application

- 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
- 一般高压电源蒸馏，被压装置 General purpose high voltage rectifier, voltage multiplier assembly

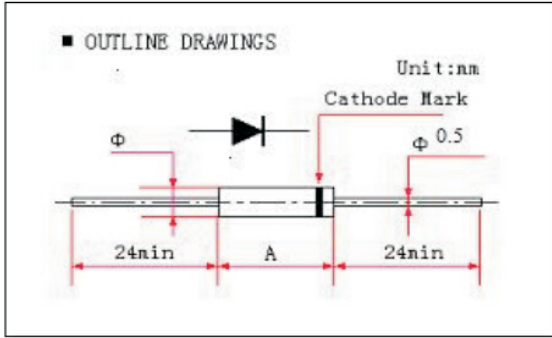
■ 最大额定值 (Maximum ratings)

参数名称	符号	测试条件	2CL					单位
			2FF	2FG	2FH	2FL	2FM	
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	$T_a=25^{\circ}\text{C}$ $I_R=2\mu\text{A}$	8	10	12	15	20	KV
正向平均整流电流 Average Forward Current	I_O		100					mA
非重复峰值浪涌电流 Surge Forward Current	I_{FSM}	正弦半波50Hz, 电阻负载 $T_{break}=50^{\circ}\text{C}$ (50Hz Half-sine Wave, Resistance load $T_{break}=50^{\circ}\text{C}$)	20					A
工作结温Junction Operating Temperature	T_j	正弦半波峰值电压 Half-sine wave peak voltage	125					$^{\circ}\text{C}$
允许工作环境温度 Operating Ambient Temperature	T_c		100					$^{\circ}\text{C}$
保存温度 Storage Temperature	T_{stg}		40~+120					$^{\circ}\text{C}$

■ 电器特性 (Electrical characteristics)

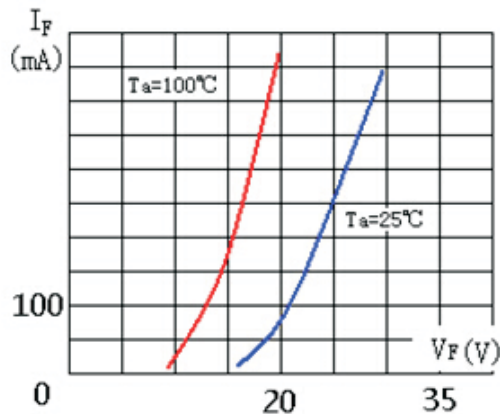
Rated Value	Sign	Condition	2CL					Unit
			2FF	2FG	2FH	2FL	2FM	
最大正向峰值电压 Forward Peak Voltage Max	V_{FM}	$I_F=200\text{mA}$	16	18	20	24	35	V
最大反向恢复时间 Reverse Recovery Time Max	T_{rr}	$I_F=5\text{mA}$	100					μS
最大反向漏电流 Peak Reverse Current	I_{R1}	$V_R=V_{RRM}, 25^{\circ}\text{C}$	5.0					μA
	I_{R2}	$V_R=V_{RRM}, 100^{\circ}\text{C}$	10.0					
最大结电容 Junction capacitance Max	C_j		2.0					pF

■ 外形图示及尺寸 (Dimension)

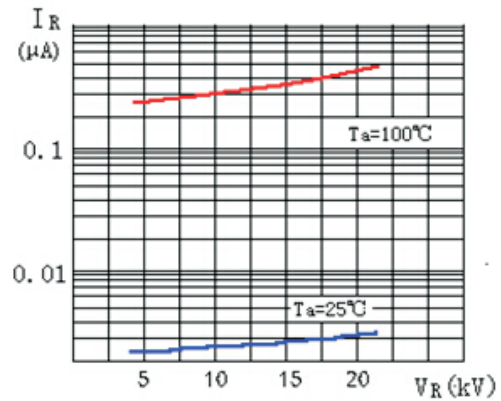


Tape	2FF	2FG	2FH	2FL	2FM
A	4.5				
Φ	15				

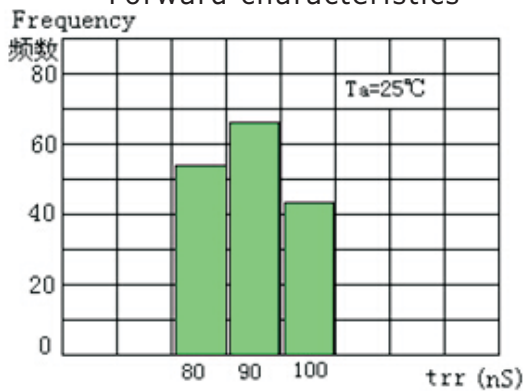
■ 特性曲线 (Characteristic curve chart)



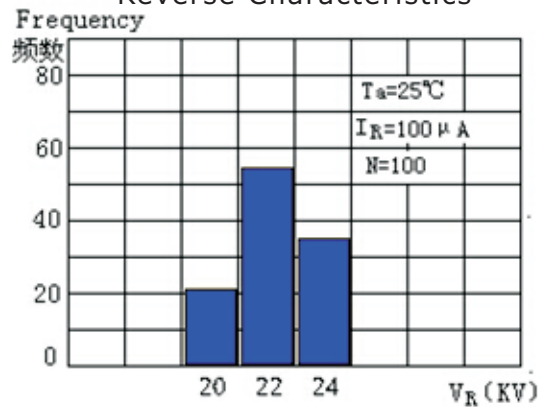
正向特性曲线(2CL2FM)
Forward characteristics



反向特性曲线(2CL2FM)
Reverse Characteristics



反向恢复时间分布(2CL2FM)
Reverse Recovery Time Distribution



反向雪崩电压分布(2CL2FM)
Avalanche Breakdown Voltage Distribution

■ 反向恢复时间基本测试电路 (Reverse Recovery Time Basic Test Circuit)

