

SL4200D、SL6200D 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 Series adopts high reliable mesa structure and diffusion craftwork, epoxy resin molded in a compact structure.

■ 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 $-40^{\circ}\text{C}—+150^{\circ}\text{C}$ Tj: $-40^{\circ}\text{C}—+150^{\circ}\text{C}$

■ 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
- 一般高压电源整流，倍压装置 General purpose high voltage rectifier, voltage multiplier assembly

■ 最大额定值 (Maximum ratings)

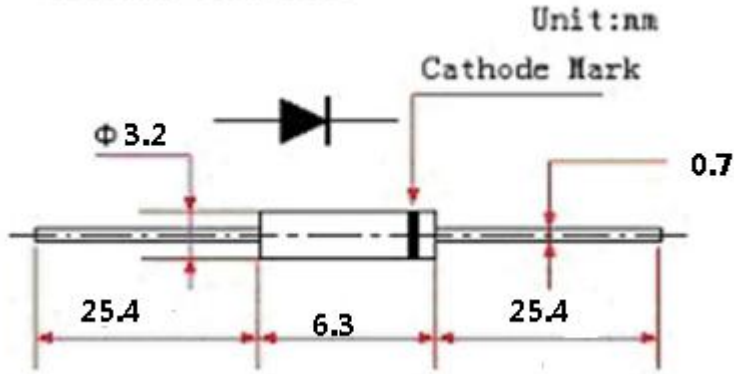
参数名称	符号	测试条件	SL4200	SL6200	单位
			D	D	
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	$T_a=25^{\circ}\text{C}$ $I_R=2\mu\text{A}$	4000	6000	V
正向平均整流电流 Average Forward Current	I_O		200	200	mA
非重复峰值浪涌电流 Surge Forward Current	I_{FSM}	正弦半波 50Hz, 电阻负载, $T_{break}=50^{\circ}\text{C}$ (50Hz Half-sine Wave , Resistance load @ $T_{break}=50^{\circ}\text{C}$)	15	15	A
工作结温 Junction Operating Temperature	T_j	正弦半波峰值电压 Half-sine wave peak voltage	$-40—+150$	$-40—+150$	$^{\circ}\text{C}$
允许工作环境温度 Operating Ambient Temperature	T_c		100	100	$^{\circ}\text{C}$
保存温度 Storage Temperature	T_{stg}		$-40—120$	$-40—120$	$^{\circ}\text{C}$

■ 电气特性(Electrical characteristics)

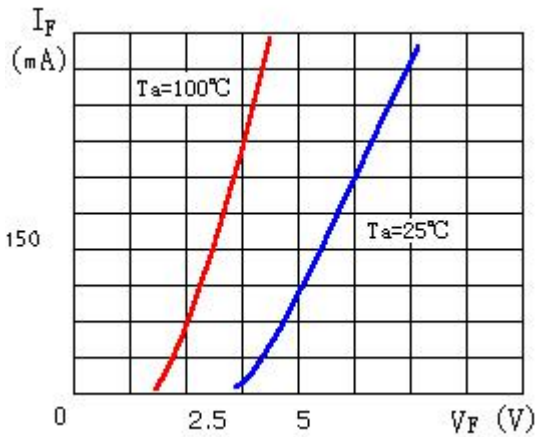
Rated Value	Sign	Condition	SL4200	SL6200	Unit
			D	D	
最大正向峰值电压 Forward Peak Voltage Max	V_F	$I_F=200\text{mA}$ 40°C	3.5	5.5	V
最大反向漏电流 Peak Reverse Current	I_{R1}	$V_R=V_{RRM}$, 25°C	2.0	2.0	μA
	I_{R2}	$V_R=V_{RRM}$, 100°C	5.0	5.0	μA

■ 外形图示及尺寸(Dimension)

■ OUTLINE DRAWINGS

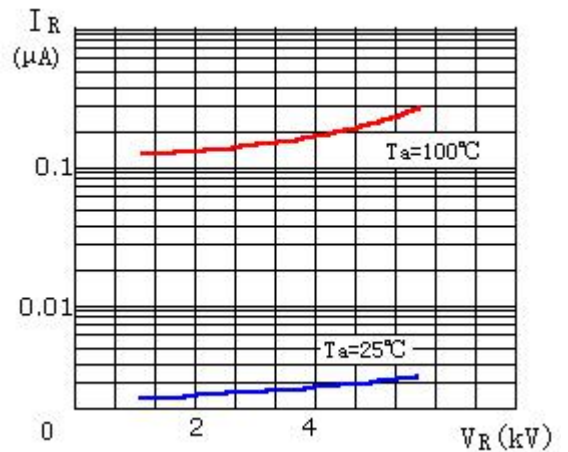


■ 特性曲线



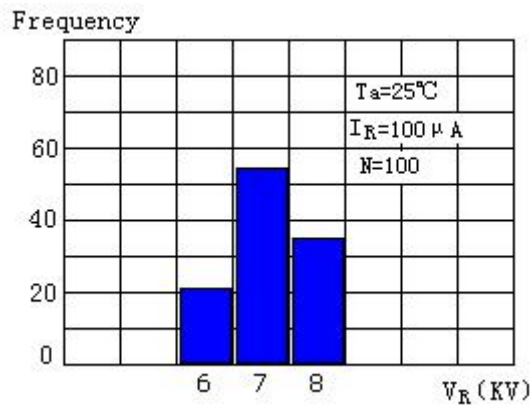
正向特性曲线(SL4200D 为例)

Forward Characteristics



反向特性曲线 (SL4200D 为例)

Reverse Characteristics



反向雪崩电压分布(SL4200D 为例)

Avalanche Breakdown Voltage Distribution