

**SL6150D** 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 SL6150D 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)

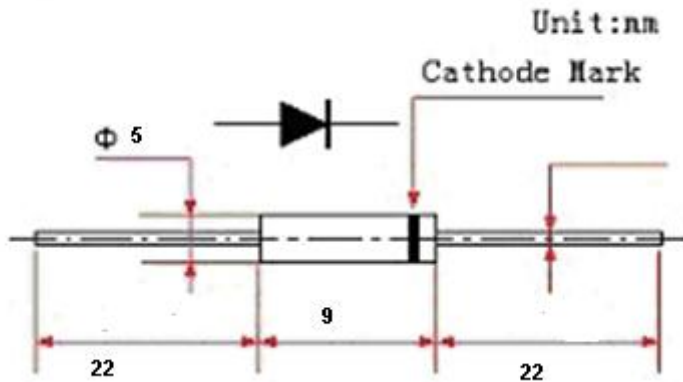
参数名称	符号	测试条件	SL6150	单位
			D	
反向重复峰值电压 Repetitive Peak Reverse Voltage			4000	V
正向平均整流电流 Average Forward Current			150	mA
非重复峰值浪涌电流 Surge Forward Current		正弦半波 50Hz，电阻负载， $T_{\text{break}}=50^{\circ}\text{C}$ (50Hz Half-sine Wave , @ $T_{\text{break}}=50^{\circ}\text{C}$ )	15	A
工作结温 Junction Operating Temperature	Tj	正弦半波峰值电压 Halfsine wave peak voltage	$-40—+150$	$^{\circ}\text{C}$
允许工作环境温度 Operating Ambient Temperature	Tc		100	$^{\circ}\text{C}$
保存温度 Storage Temperature	Tstg		$-40—120$	$^{\circ}\text{C}$

### ■ 电气特性 (Electrical characteristics)

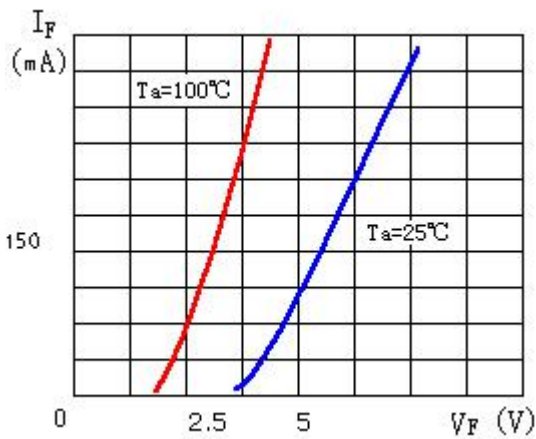
Rated Value	Sign	Condition		Unit
最大正向峰值电压 Forward Peak Voltage Max	V <sub>F</sub>	<b>I<sub>F</sub>=150mA 40°C</b>	3.5	V
最大反向漏电流 Peak Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =V <sub>RRM</sub> , 25°C	2.0	μA
	I <sub>R2</sub>	V <sub>R</sub> =V <sub>RRM</sub> , 100°C	5.0	μA

■ 外形图示及尺寸( Dimension)

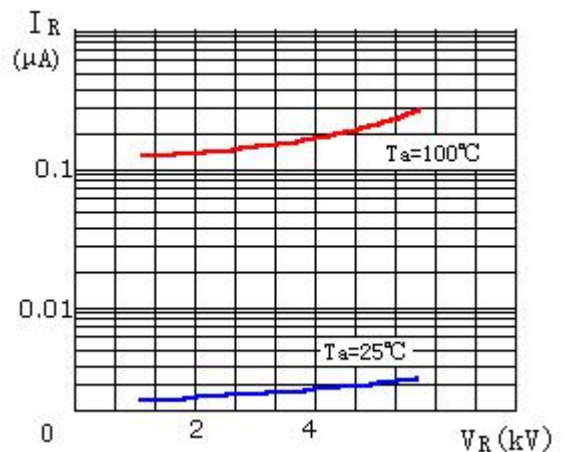
■ OUTLINE DRAWINGS



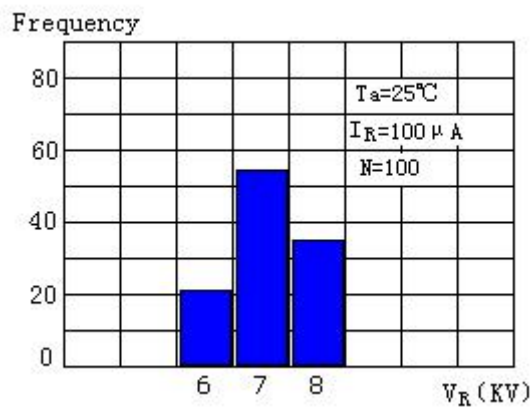
■ 特性曲线



正向特性曲线  
Forward Characteristics



反向特性曲线  
Reverse Characteristics



反向雪崩电压分布  
Avalanche Breakdown Voltage Distribution

■ 反向恢复时间基本测试电路

Reverse Recovery Time Basic Test Circuit

