

**DAT5212****低频高压二极管**

反向电压: 12 kV 正向电流: 500 mA

Standard Recovery High Voltage Diode

Reverse Voltage: 12 kV

Average Forward Current: 500 mA

**技术资料****Technical Data**

- 产品级别: 外贸级
- 封装形式: 环氧封装
- 引线: 轴向
- 极性: 色环指示负极
- Product Grade: International Standard
- Package Type: Epoxy Encapsulation
- Lead: Axial Lead
- Polarity: Cathode Indicated by Color Band

**产品标准****Product Standard**

Q/FT TRV0003-2022 《高压二极管》

**验收标准****Acceptance Criteria**

GB/T 4023-1997 《半导体器件分立器件和集成电路 第2部分: 整流二极管》

Semiconductor Devices-Discrete Devices and Integrated Circuits-Part 2: Rectifier Diodes

**外形尺寸****External Dimensions**

封装代号: HVD-610; 详见右图

Package Code: HVD-610; Please refer to the figure on the right.



HVD-610

单位: mm

## 特性及参数值

## Characteristics and Parameter

除非另有规定，环境温度均为 25°C。

The ambient temperature is 25°C unless otherwise specified.

| 电气特性<br>Electrical Characteristics                                                 | 符 号<br>Symbol | 额定值<br>Ratings                            | 单 位<br>Unit        |
|------------------------------------------------------------------------------------|---------------|-------------------------------------------|--------------------|
| 最大反向重复峰值电压<br>Maximum Repetitive Peak Reverse Voltage                              | $V_{RRM}$     | 12                                        | kV                 |
| 最大反向不重复峰值电压<br>Maximum Non-repetitive Peak Reverse Voltage                         | $V_{RSM}$     | 13                                        | kV                 |
| 最大正向平均电流<br>Maximum Average Forward Current<br>(@ $T_{oil} = 55^{\circ}\text{C}$ ) | $I_{F(AV)}$   | 500                                       | mA                 |
| 最大正向浪涌电流<br>Maximum Forward Surge Current                                          | $I_{FSM}$     | 40                                        | A                  |
| 最大正向峰值电压<br>Maximum Peak Forward Voltage<br>(@ $I_F = I_{F(AV)}$ )                 | $V_{FM}$      | $\leq 13$                                 | V                  |
| 最大直流反向电流<br>Maximum DC Reverse Current<br>(@ $V_R = V_{RRM}$ )                     | $I_R$         | $\leq 2 (T_a = 25^{\circ}\text{C})$       | $\mu\text{A}$      |
|                                                                                    |               | $\leq 10 (T_{oil} = 100^{\circ}\text{C})$ |                    |
| 有效工作结温<br>Operating Junction Temperature Range                                     | $T_J$         | $-55 \sim +125$                           | $^{\circ}\text{C}$ |
| 贮存温度<br>Storage Temperature Range                                                  | $T_{STG}$     | $-55 \sim +150$                           | $^{\circ}\text{C}$ |