

塑封快恢复高压二极管

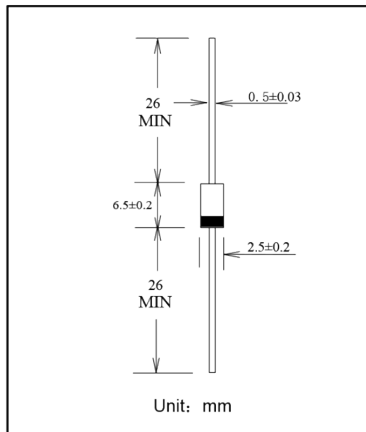
反向电压 3KV

正向电流 5mA

Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 3KV

Forward Current 5mA



特征 Features

- 超小型 Supersmall size
- 高可靠性 High reliability
- 高速开关 High speed switching
- RoHS对应产品 RoHS corresponding products

用途 Purpose

- 适用于办公设备的高压整流

Rectification for office equipments of high voltage

- 其它高压电源整流用

Rectification for Other high voltage power

极限值和温度特性 TA = 25℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| 参数名称<br>Item                                        | 符号<br>Symbol | 2CL03                                                                          | 单位<br>Unit |
|-----------------------------------------------------|--------------|--------------------------------------------------------------------------------|------------|
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | $V_{RRM}$    | 3                                                                              | KV         |
| 正向平均电流<br>Average Forward Current                   | $I_{F(AV)}$  | 5<br>(正弦半波50HZ, 电阻负载Ta=25℃)<br>(50HZ half-sine wave, Resistance load Ta=25℃)   | mA         |
| 正向(不重复)浪涌电流<br>Non-Repetitive Forward Surge Current | $I_{FSM}$    | 0.5<br>(正弦半波50HZ, 1/2周期, Ta=25℃)<br>(50HZ half-sine wave, 1/2 cycle, Ta = 25℃) | A          |
| 工作环境温度<br>Ambient Temperature                       | $T_{amb}$    | -40 ~ +100                                                                     | ℃          |
| 最高结温<br>Maximum Junction Temperature                | $T_{(vj)}$   | 120                                                                            | ℃          |
| 贮存温度<br>Storage Temperature                         | $T_{stg}$    | -40 ~ +120                                                                     | ℃          |

电特性 TA = 25℃ 除非另有规定。

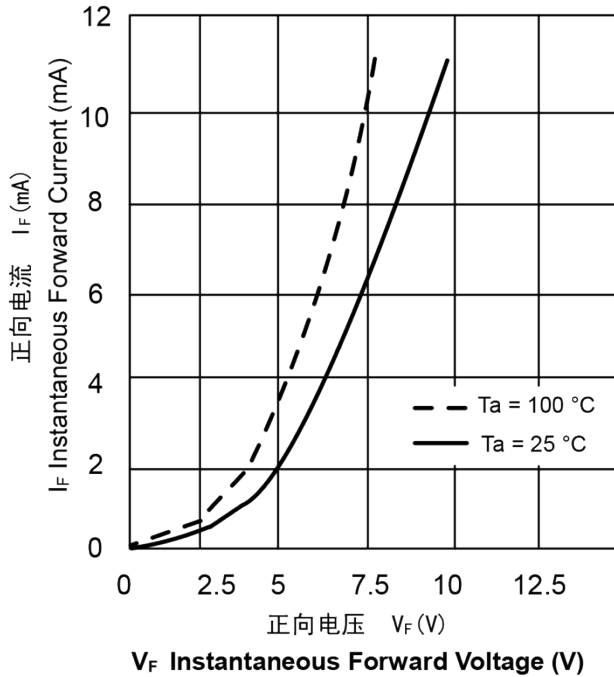
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| 参数名称<br>Item                                                              | 符号<br>Symbol | 2CL03 | 单位<br>Unit |
|---------------------------------------------------------------------------|--------------|-------|------------|
| 正向压降<br>Forward Voltage Drop $I_F = 10mA$                                 | $V_F$        | 13    | V          |
| 常温反向漏电流<br>Normal Temperature Reverse Current $V_R = V_{RRM}$             | $I_{RM1}$    | 2     | μA         |
| 高温反向漏电流<br>High Temperature Reverse Current $T_A = 100℃ V_R = V_{RRM}$    | $I_{RM2}$    | 5     | μA         |
| 反向恢复时间<br>Reverse Recovery Time $I_F = 2mA, I_{rp} = 4mA$<br>1mA recovery | $t_{rr}$     | 100   | nS         |

## 特性曲线 Characteristic Curves

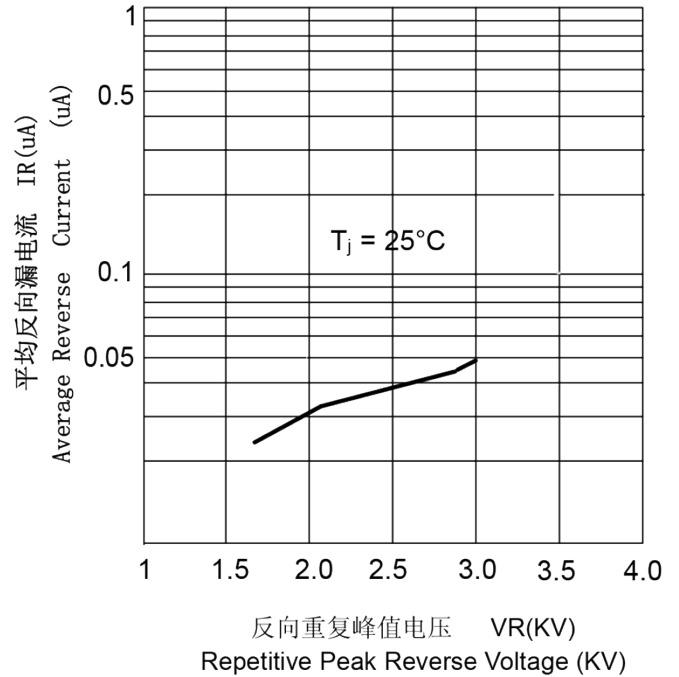
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



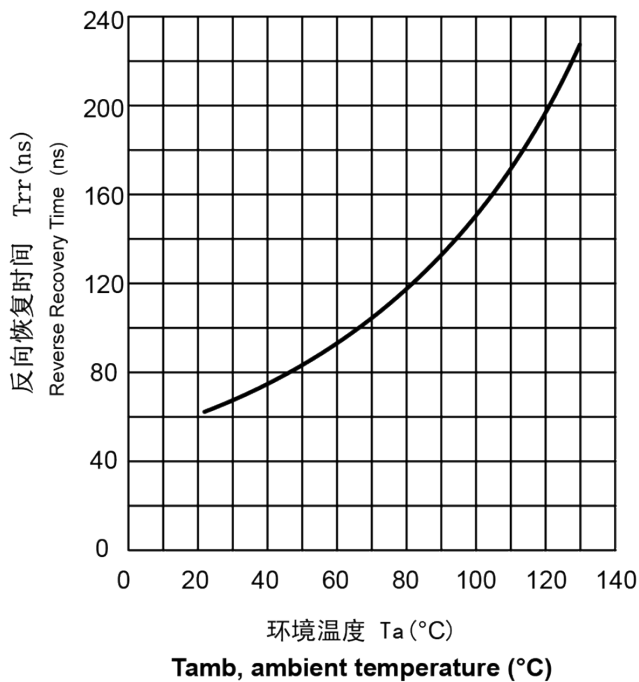
反向特性曲线

REVERSE CHARACTERISTIC [VR-IR]



反向恢复时间特性

REVERSE RECOVERY TIME CHARACTERISTIC [ $T_a$ - $T_{rr}$ ]



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

