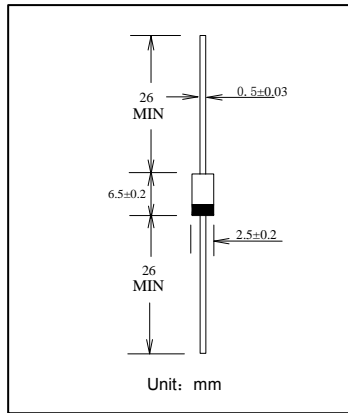


塑封快恢复高压二极管

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

- 适用于办公设备的高压整流
For high voltage rectification for office equipment
- 扩散结
Diffused-junction
- 具有良好的高温输出特性
Excellent high temperature output characteristics
(Small leakage current at high temperature and excellent reverse characteristics)

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

电特性 TA = 25℃ 除非另有规定。

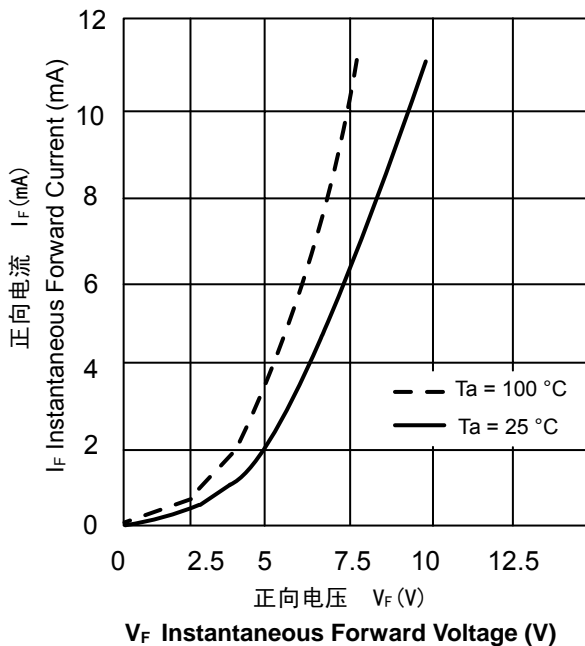
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

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

特性曲线 Characteristic Curves

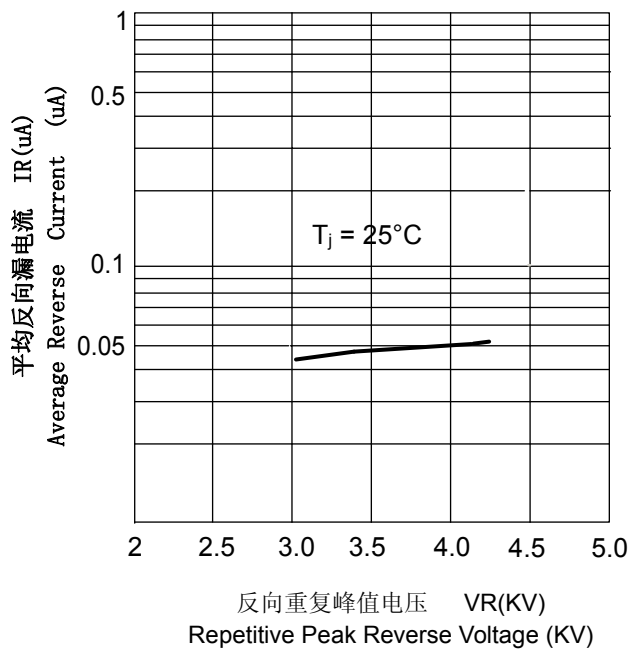
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



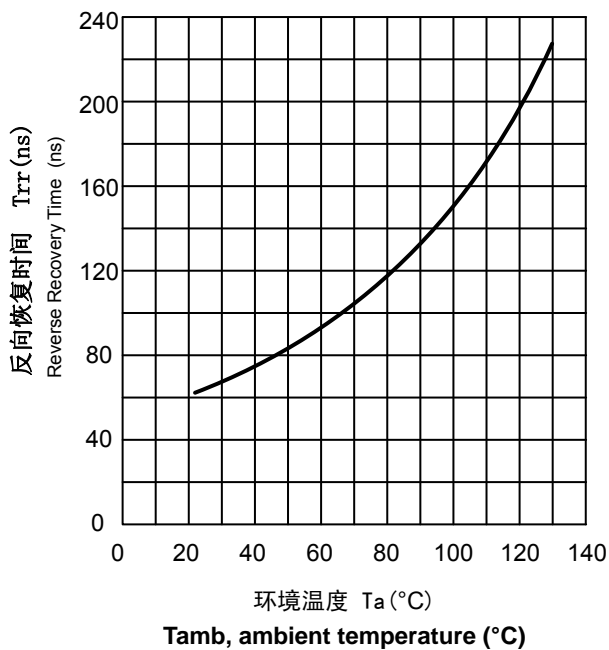
反向特性曲线

REVERSE CHARACTERISTIC [VR-IR]



反向恢复时间特性

REVERSE RECOVERY TIME CHARACTERISTIC [Ta-Trr]



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

