

塑封快恢复高压二极管

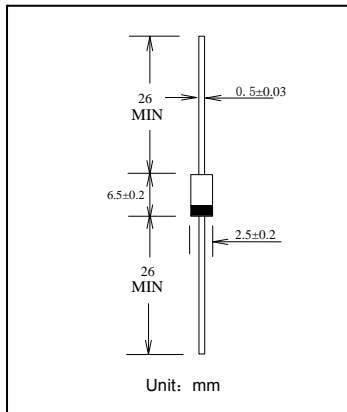
反向电压 8KV

正向电流 5mA

Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 8KV

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

- 彩色电视机高压主电源整流用
Rectification for high voltage power supply of color T.V.
- CRT显示器高压电源整流用
Rectification for high voltage power supply of CRT display
- 空气净化器用 Air Cleaner
- 其它高压电源整流用 Others

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 | 2CL71A | 单位 Unit |
|---|--------------|---|------------|
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | V_{RRM} | 8 | KV |
| 正向平均电流 Average Forward Current | $I_{F(AV)}$ | 5 (正弦半波50HZ, 电阻负载 $T_a=25^{\circ}C$) (50HZ half-sine wave, Resistance load $T_a=25^{\circ}C$) | 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, $T_a=25^{\circ}C$) (50HZ half-sine wave, 1/2 cycle, $T_a = 25^{\circ}C$) | A |
| 工作环境温度 Ambient Temperature | T_{amb} | -40 --- +100 | ℃ |
| 有效结温 Virtual Junction Temperature | T_J | 120 | ℃ |
| 贮存温度 Storage Temperature | T_{stg} | -40 --- +120 | ℃ |

电特性 TA = 25℃ 除非另有规定。

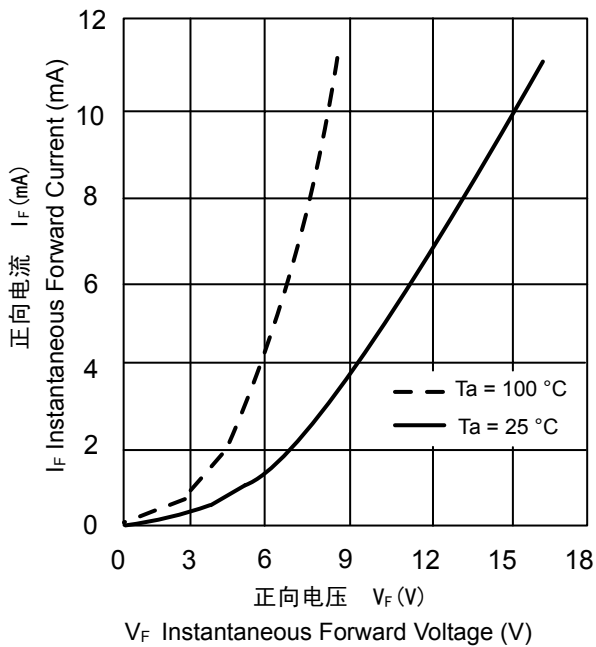
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| 参数名称 Item | 符号 Symbol | 2CL71A | 单位 Unit |
|--|--------------|--------|------------|
| 正向压降 Forward Voltage Drop $I_F = 10mA$ | V_F | 25 | V |
| 常温反向漏电流 Normal Temperature Reverse Current $VR = V_{RRM}$ | I_{RM1} | 2 | μA |
| 高温反向漏电流 High Temperature Reverse Current $TA = 100^{\circ}C$ $VR = V_{RRM}$ | I_{RM2} | 5 | μA |
| 反向恢复时间 Reverse Recovery Time $I_F = 2mA, I_{rp} = 4mA$ $1mA$ recovery | t_{rr} | 100 | nS |

特性曲线 Characteristic Curves

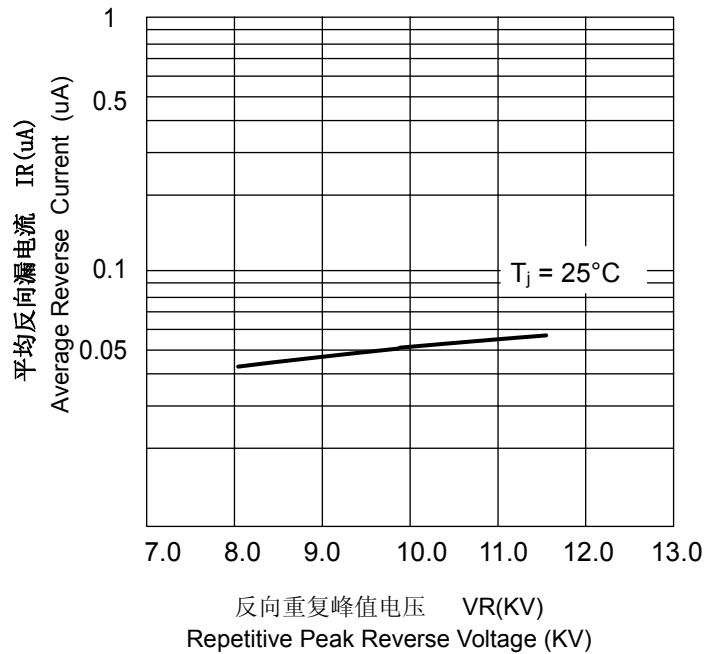
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



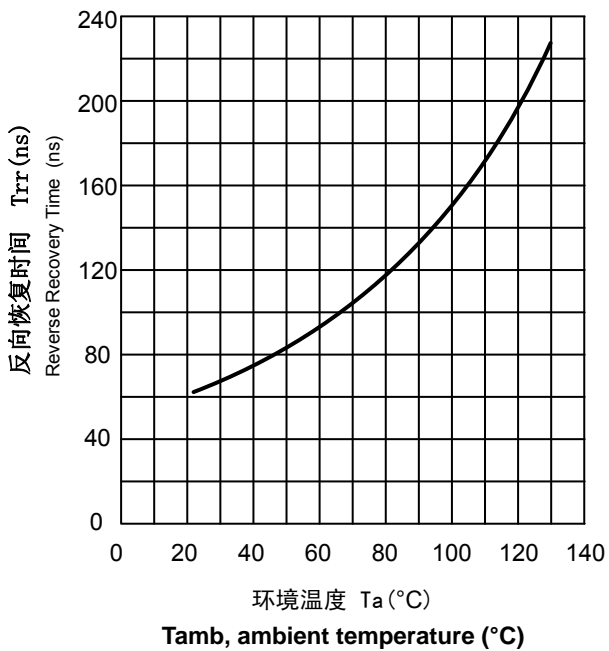
反向特性曲线

REVERSE CHARACTERISTIC [VR-IR]



反向恢复时间特性

REVERSE RECOVERY TIME CHARACTERISTIC [Ta-Trr]



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

