

塑封高压二极管

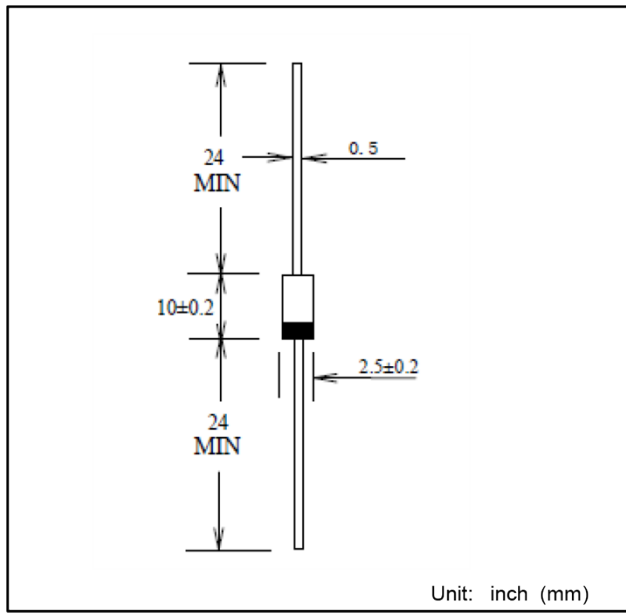
反向电压 14KV

正向电流 5 mA

Plastic High Voltage Rectifier

Reverse Voltage 14KV

Forward Current 5 mA



特征 Features

- $I_{F(AV)}$ 5mA
- V_{RRM} 14KV
- 高信赖性 High reliability

用途 Purpose

- 电子设备高压电源整流用
Rectification for high voltage power supply

极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

| 参数 Parameter | 符号 Symbols | 2CL74A | 单位 Unit |
|---|---------------|--------------|------------------|
| 反向重复峰值电压 Repetitive peak reverse voltage | V_{RRM} | 14 | KV |
| 正向平均电流 Average forward current | $I_{F(AV)}$ | 5.0 | mA |
| 正向不重复浪涌电流 正弦半波50HZ, 1/2周期, $T_a=25^\circ\text{C}$ Non-repetitive peak forward surge current 50HZ half-sine wave, 1/2 cycle, $T_a=25^\circ\text{C}$ | I_{FSM} | 0.5 | A |
| 工作环境温度 Ambient temperature range | T_{amb} | -40 --- +100 | $^\circ\text{C}$ |
| 最高结温 Maximum junction temperature | $T_{(VJ)}$ | 120 | $^\circ\text{C}$ |
| 存储温度 Storage temperature range | T_{STG} | -40 --- +120 | |

电特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

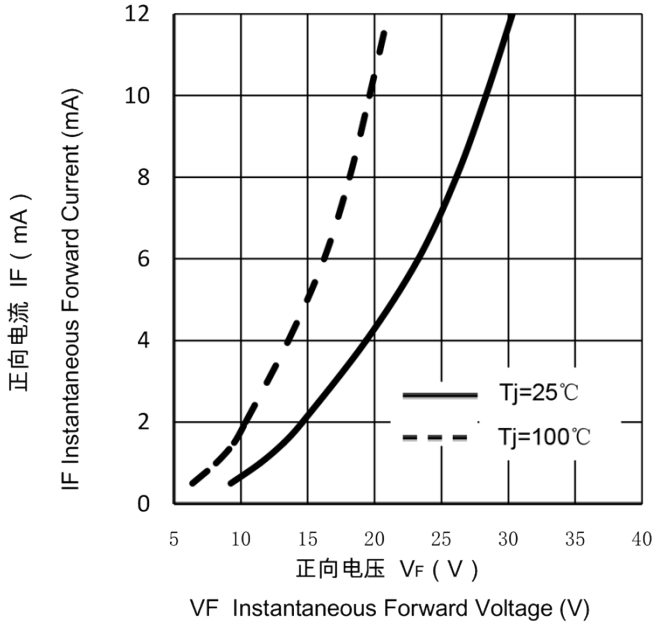
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| 参数 Parameter | 符号 Symbols | 2CL74A | 单位 Unit |
|---|---------------|--------|---------------|
| 最大正向电压 @ $I_F=10.0\text{mA}$ Maximum forward voltage | V_F | 42.5 | V |
| 最大反向电流 @ V_{DC} Maximum reverse current | I_R | 2 | μA |
| $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ | | 5 | |
| 反向恢复时间 Reverse Recovery Time | T_{rr} | 100 | ns |
| $I_F=2\text{mA}$, $i_{rp}=4\text{mA}$ 1mA recovery | | | |

特性曲线 Characteristic Curves

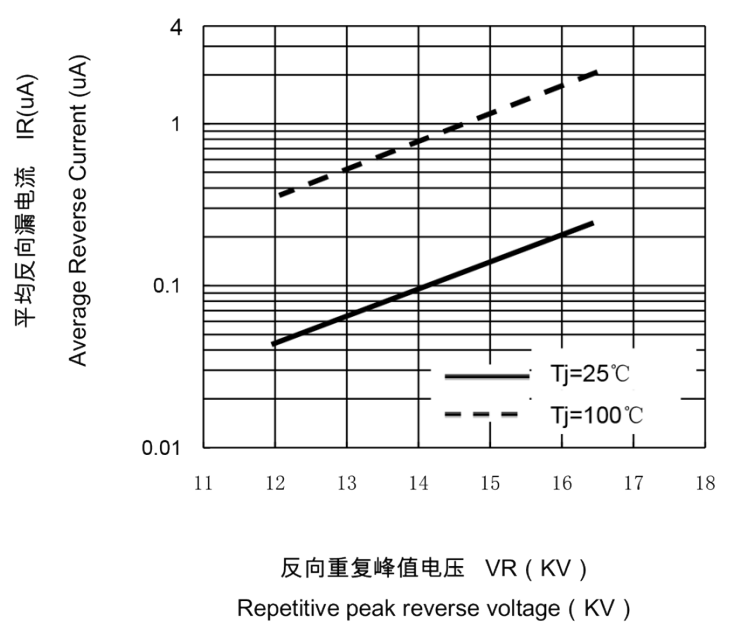
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



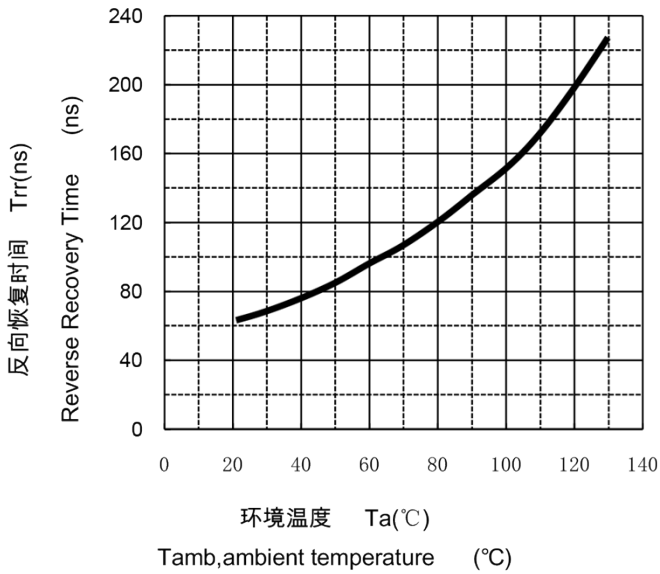
反向特性曲线

TYPICAL REVERSE CHARACTERISTIC



反向恢复时间特性

REVERSE RECOVERY TIME CHARACTERISTIC



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

