



# 2CL71B

## 塑封快恢复高压二极管

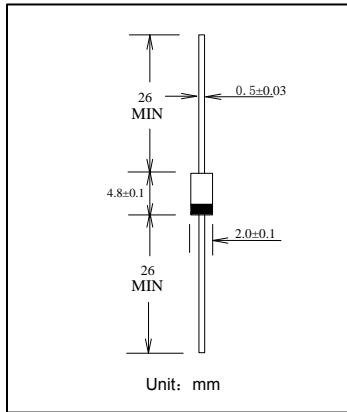
反向电压 8KV

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 Clean Car
- 其它高压电源整流用 Others

极限值和温度特性 TA = 25°C 除非另有规定。

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

参数名称 Item	符号 Symbol	2CL71B	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Ta=25°C) (50HZ half-sine wave, Resistance load Ta=25°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, Ta=25°C) (50HZ half-sine wave, 1/2 cycle, Ta = 25 °C)	A
工作环境温度 Ambient Temperature	$T_{amb}$	-40 --- +100	°C
有效结温 Virtual Junction Temperature	$T_J$	120	°C
贮存温度 Storage Temperature	$T_{stg}$	-40 --- +120	°C

电特性 TA = 25°C 除非另有规定。

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

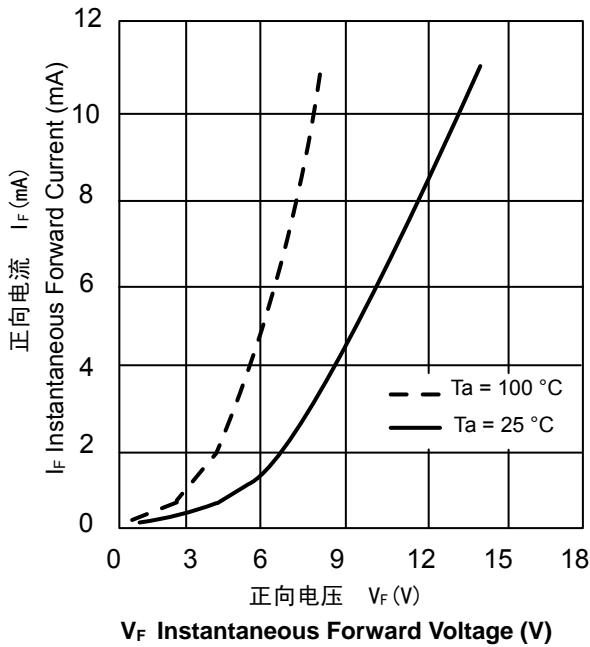
参数名称 Item	符号 Symbol	2CL71B	单位 Unit
正向压降 Forward Voltage Drop $I_F = 10mA$	$V_F$	25	V
常温反向漏电流 Normal Temperature Reverse Current $VR = V_{RRM}$	$I_{RM1}$	2	$\mu A$
高温反向漏电流 High Temperature Reverse Current $TA = 100^\circ C \quad VR = V_{RRM}$	$I_{RM2}$	5	$\mu A$
反向恢复时间 Reverse Recovery Time $I_F = 2mA, I_{rp} = 4mA$ 75% recovery	$t_{rr}$	100	nS



### 特性曲线 Characteristic Curves

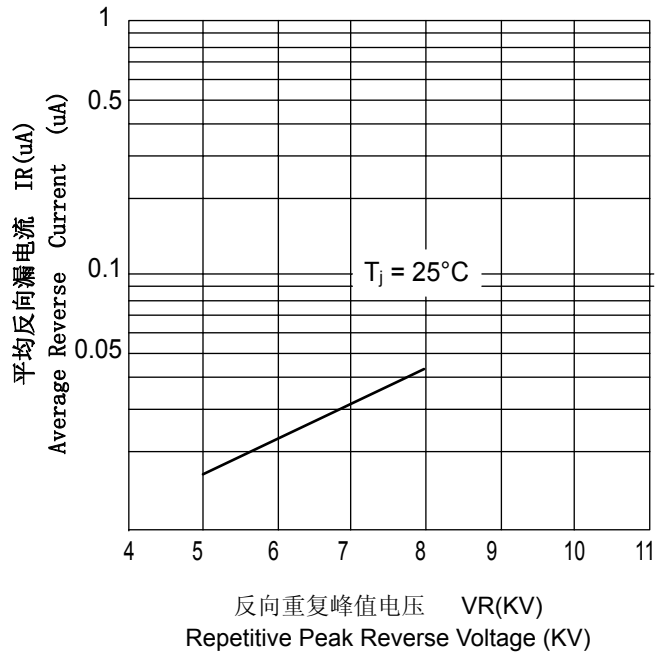
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



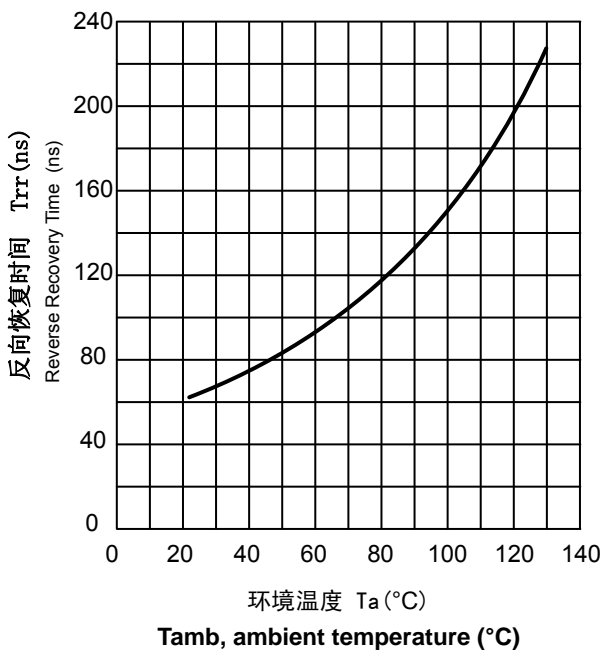
反向特性曲线

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

