

## 塑封快恢复高压二极管

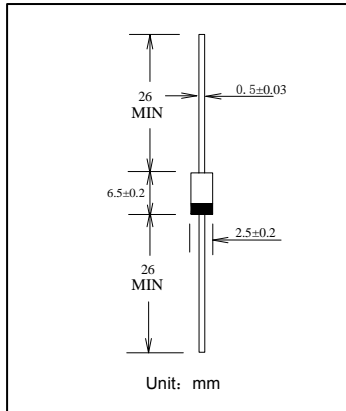
反向电压 6KV

正向电流 5mA

## Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 6KV

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°C 除非另有规定。

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

参数名称 Item	符号 Symbol	2CL70A	单位 Unit
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	6	KV
正向平均电流 Average Forward Current	$I_{F(AV)}$	5 (正弦半波50HZ, 电阻负载 $T_a=25^\circ\text{C}$ ) (50HZ half-sine wave, Resistance load $T_a=25^\circ\text{C}$ )	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, $T_a=25^\circ\text{C}$ ) (50HZ half-sine wave, 1/2 cycle, $T_a = 25^\circ\text{C}$ )	A
工作环境温度 Ambient Temperature	$T_{amb}$	-40 --- +100	$^\circ\text{C}$
最高结温 Maximum Junction Temperature	$T_{(vj)}$	120	$^\circ\text{C}$
贮存温度 Storage Temperature	$T_{stg}$	-40 --- +120	$^\circ\text{C}$

## 电特性 TA = 25°C 除非另有规定。

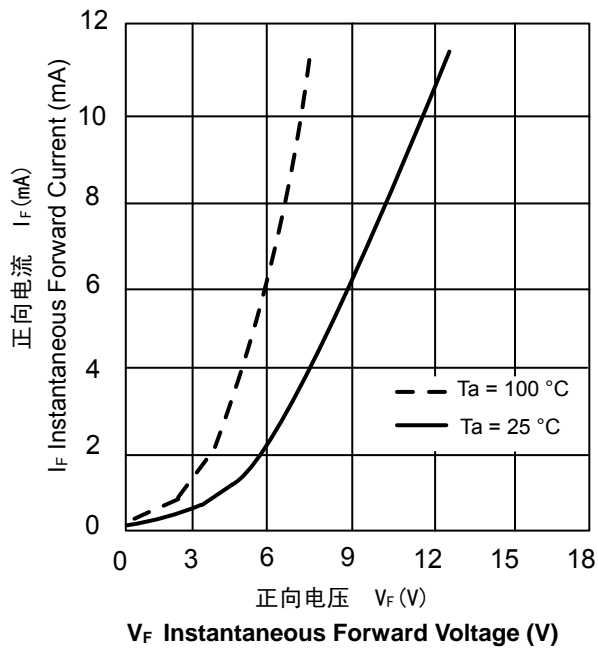
## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数名称 Item	符号 Symbol	2CL70A	单位 Unit
正向压降 Forward Voltage Drop $I_F = 10\text{mA}$	$V_F$	20	V
常温反向漏电流 Normal Temperature Reverse Current $V_R = V_{RRM}$	$I_{RM1}$	2	$\mu\text{A}$
高温反向漏电流 High Temperature Reverse Current $T_A = 100^\circ\text{C}$ $V_R = V_{RRM}$	$I_{RM2}$	5	$\mu\text{A}$
反向恢复时间 Reverse Recovery Time $I_F = 2\text{mA}, I_{rp} = 4\text{mA}$ $1\text{mA recovery}$	$t_{rr}$	100	nS

特性曲线 Characteristic Curves

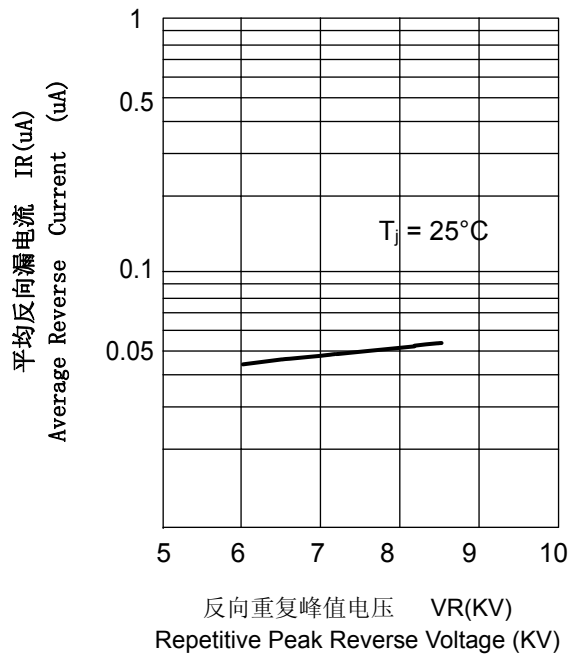
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



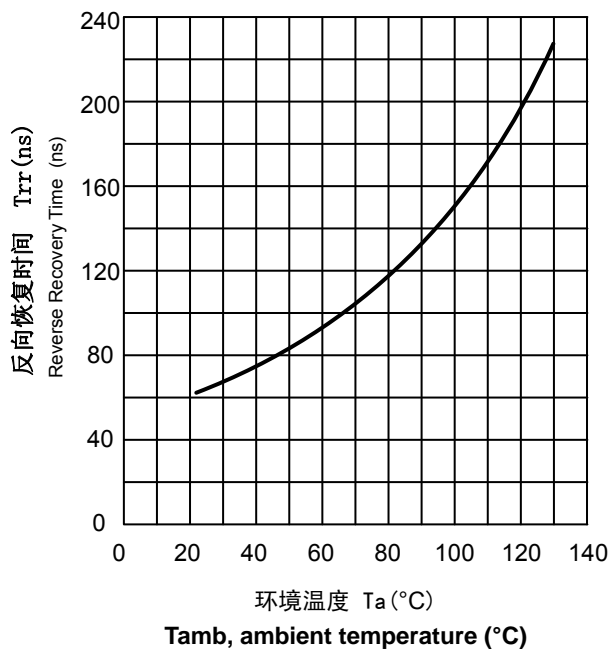
反向特性曲线

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

