

塑封快恢复高压二极管

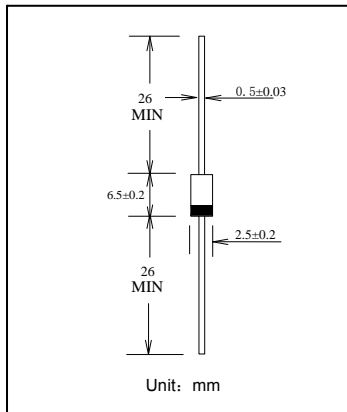
反向电压 8KV

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 $T_a=25^\circ\text{C}$) (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	℃
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。

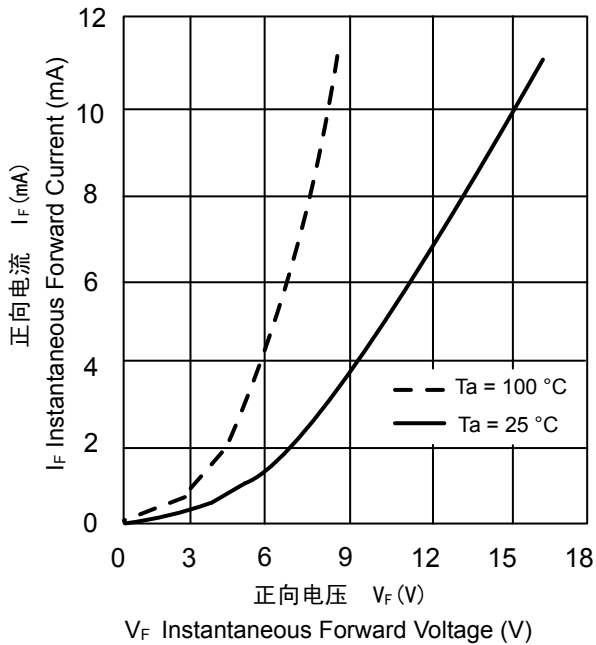
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

参数名称 Item	符号 Symbol	2CL71A	单位 Unit
正向压降 Forward Voltage Drop $I_F = 10\text{mA}$	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 $TA = 100^\circ\text{C} VR = V_{RRM}$	I_{RM2}	5	μA
反向恢复时间 Reverse Recovery Time $I_F = 2\text{mA}, I_{rp} = 4\text{mA}$ 1mA recovery	t_{rr}	100	nS

特性曲线 Characteristic Curves

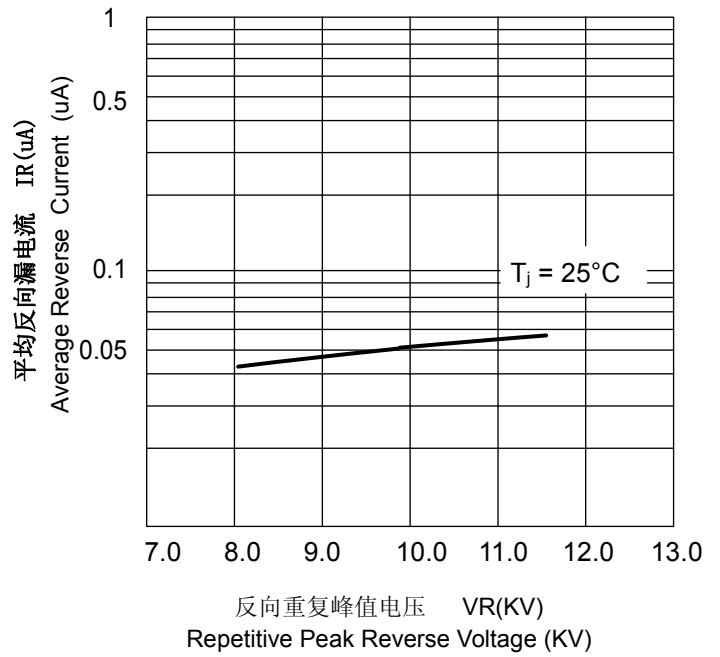
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



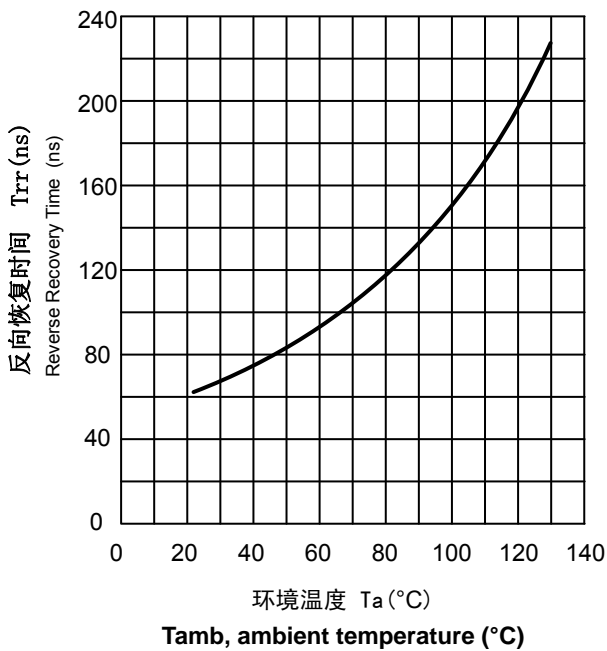
反向特性曲线

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

