SIYU®

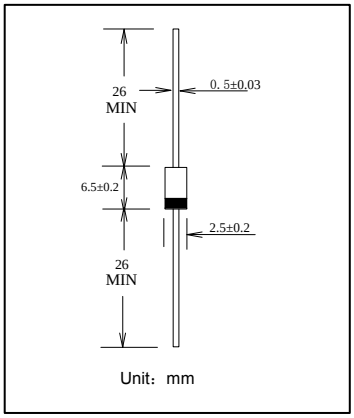
2CL72B

塑封快恢复高压二极管

反向电压 10KV
正向电流 5mA

Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 10KV
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	2CL72B	单位 Unit
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	10	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℃) (50HZ half-sine wave,Resistance load Ta=25℃)	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℃) (50HZ half-sine wave,1/2 cycle, Ta = 25 ℃)	A
工作环境温度 Ambient Temperature	Tamb	-40 --- +100	℃
最高结温 Maximum Junction Temperature	$T_{(vJ)}$	120	℃
贮存温度 Storage Temperature	T_{stg}	-40 --- +120	℃

电特性 TA = 25℃ 除非另有规定。

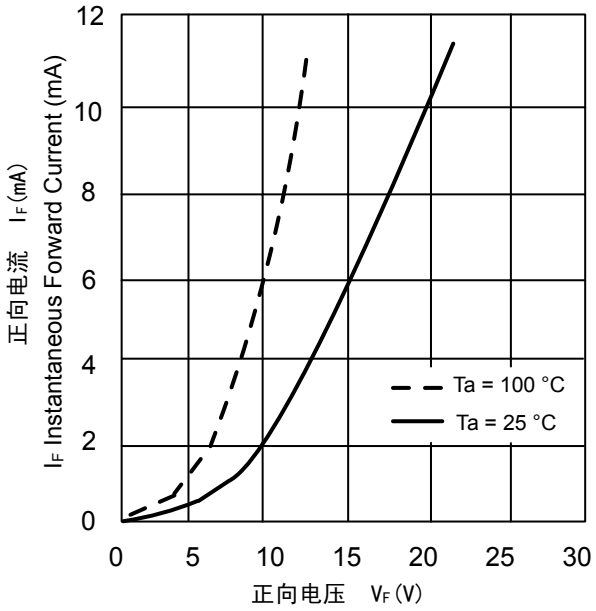
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

参数名称 Item		符号 Symbol	2CL72B	单位 Unit
正向压降 Forward Voltage Drop	I_F =10mA	V_F	30	V
常温反向漏电流 Normal Temperature Reverse Current	VR=VRRM	I_{RM1}	2	μA
高温反向漏电流 High Temperature Reverse Current	TA=100℃ VR=VRRM	I_{RM2}	5	μA
反向恢复时间 Reverse Recovery Time	IF =2mA,Irp=4mA 1mA recovery	trr	100	nS

特性曲线 Characteristic Curves

正向特性曲线

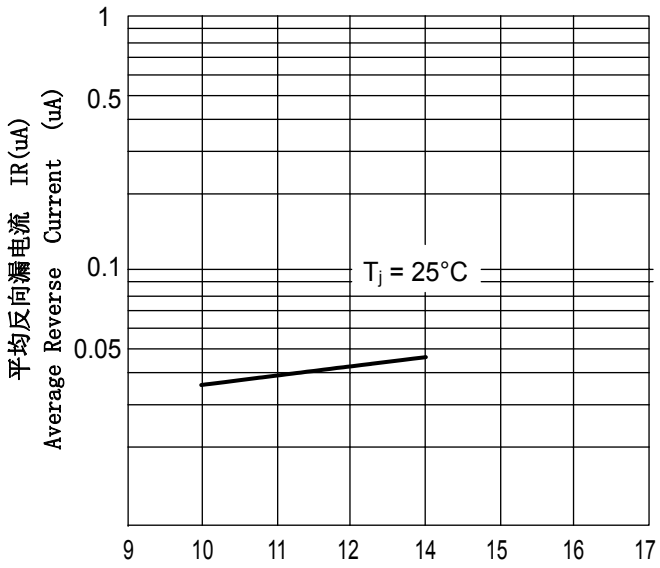
TYPICAL FORWARD CHARACTERISTIC



V_F Instantaneous Forward Voltage (V)

反向特性曲线

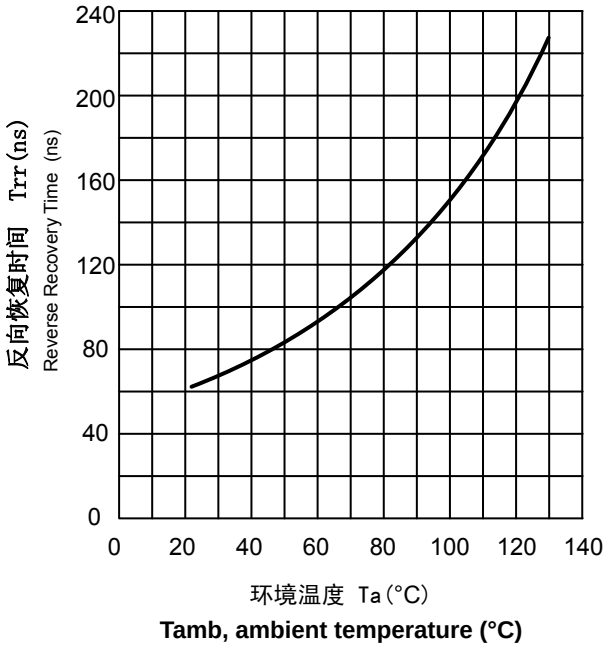
REVERSE CHARACTERISTIC [VR-IR]



Repetitive Peak Reverse Voltage (KV)

反向恢复时间特性

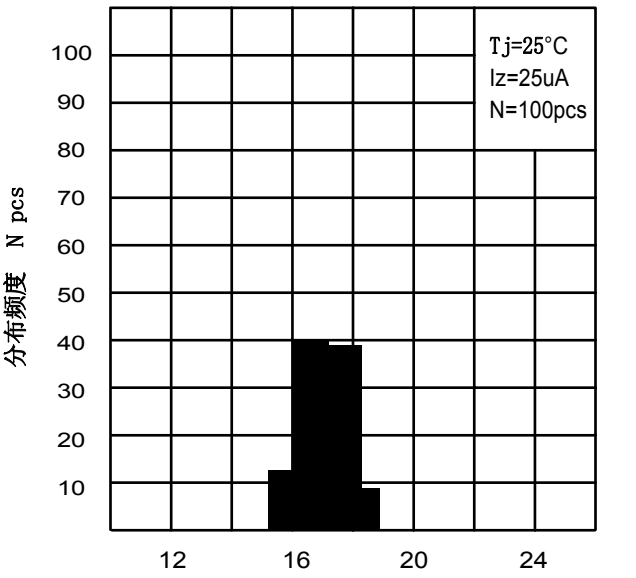
REVERSE RECVERY TIME CHARACTENRISTIC[Ta-Trr]



Tamb, ambient temperature (°C)

反向电压特性分布

RECERSE VOLTAGE CHARACTENRISTIC DISTRIBUTION



VZ,Reverse voltage(KV)