

## 塑封快恢复高压二极管

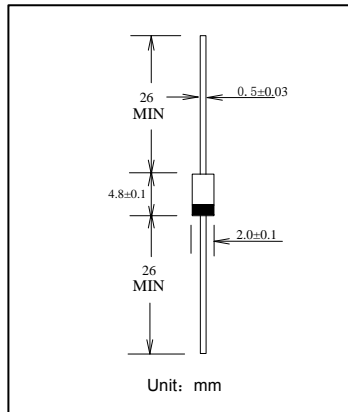
反向电压 3KV

正向电流 5mA

## Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 3KV

Forward Current 5mA



## 特征 Features

- 适用于办公设备的高压整流

For high voltage rectification for office equipment

- 扩散结

Diffused-junction

- 具有良好的高温输出特性

Excellent high temperature output characteristics  
(Small leakage current at high temperature and excellent reverse characteristics)

## 极限值和温度特性 TA = 25℃ 除非另有规定。

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

参数名称 Item	符号 Symbol	2CL03S	单位 Unit
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	3	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	$T_{amb}$	-40 --- +100	℃
最高结温 Maximum Junction Temperature	$T_{(vj)}$	120	℃
贮存温度 Storage Temperature	$T_{stg}$	-40 --- +120	℃

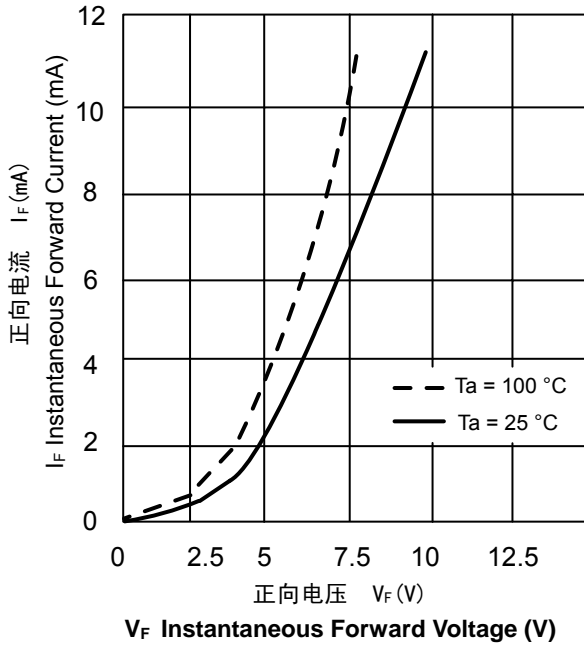
## 电特性 TA = 25℃ 除非另有规定。

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

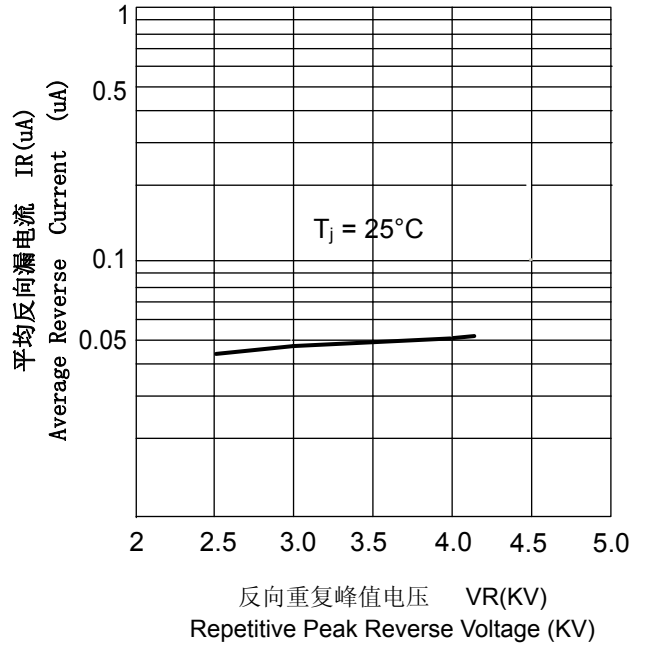
参数名称 Item	符号 Symbol	2CL03S	单位 Unit
正向压降 Forward Voltage Drop	$I_F = 10mA$ $V_F$	13	V
常温反向漏电流 Normal Temperature Reverse Current	$VR = V_{RRM}$ $I_{RM1}$	2	μA
高温反向漏电流 High Temperature Reverse Current	$TA = 100℃$ $VR = V_{RRM}$ $I_{RM2}$	5	μA
反向恢复时间 Reverse Recovery Time	$I_F = 2mA, I_{rp} = 4mA$ $1mA$ recovery $t_{rr}$	100	nS

特性曲线 Characteristic Curves

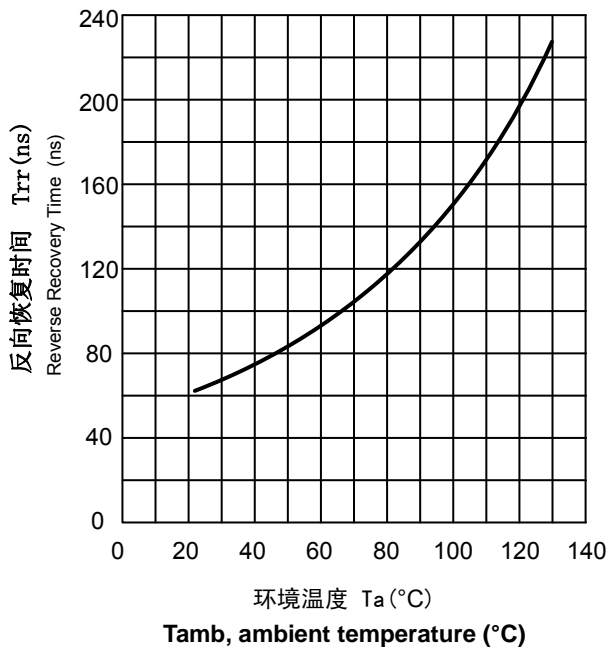
正向特性曲线  
TYPICAL FORWARD CHARACTERISTIC



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

