

塑封快恢复高压二极管

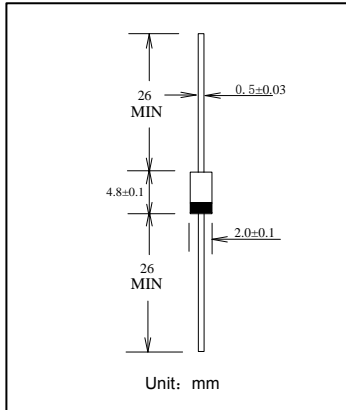
反向电压 3KV

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 & 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 $T_a=25^\circ\text{C}$) (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	℃
最高结温 Maximum Junction Temperature	$T_{(vj)}$	120	℃
贮存温度 Storage Temperature	T_{stg}	-40 --- +120	℃

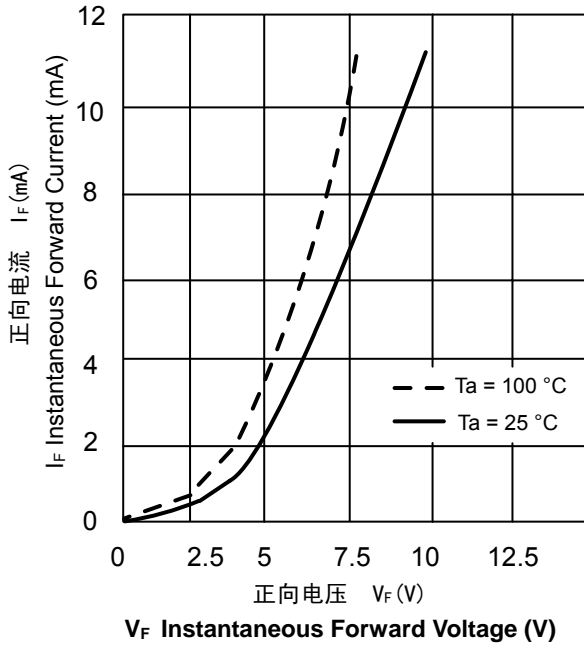
电特性 TA = 25℃ 除非另有规定。

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

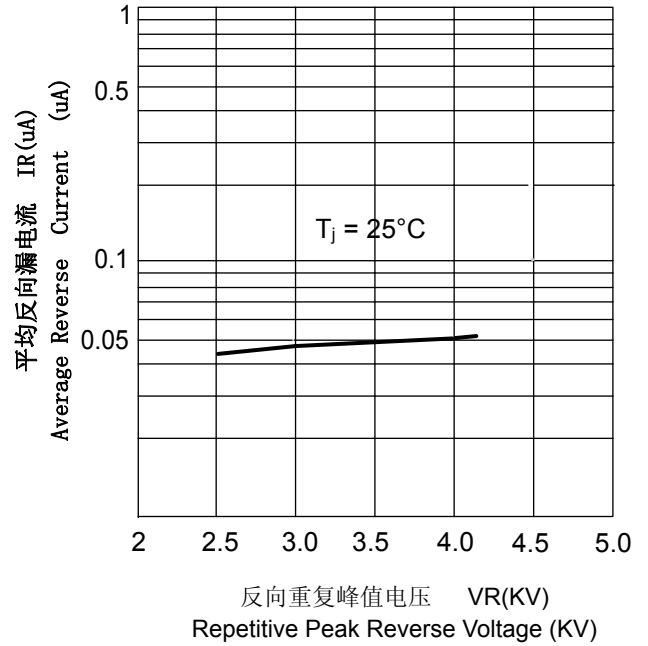
参数名称 Item	符号 Symbol	2CL03S	单位 Unit
正向压降 Forward Voltage Drop $I_F=10\text{mA}$	V_F	13	V
常温反向漏电流 Normal Temperature Reverse Current $VR=V_{RRM}$	I_{RM1}	2	μA
高温反向漏电流 High Temperature Reverse Current $TA=100^\circ\text{C} VR=V_{RRM}$	I_{RM2}	5	μA
反向恢复时间 Reverse Recovery Time $I_F=2\text{mA}, I_{rp}=4\text{mA}$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

特性曲线 Characteristic Curves

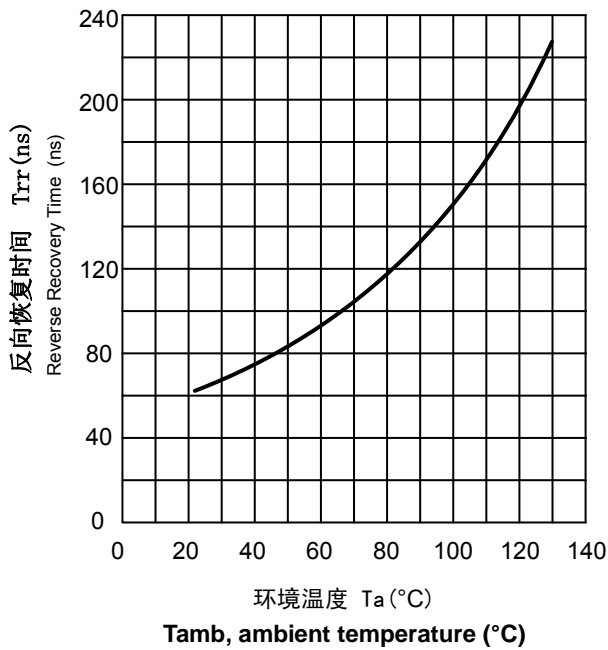
正向特性曲线
TYPICAL FORWARD CHARACTERISTIC



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

