



塑封快恢复高压二极管

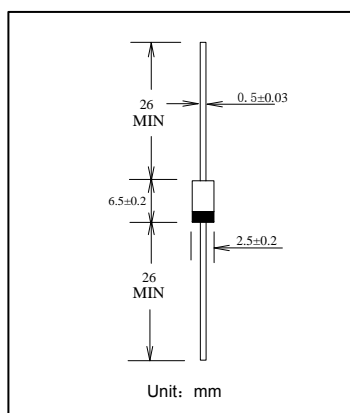
反向电压 3KV

正向电流 5mA

Plastic Fast Recover High Voltage Rectifier

Reverse Voltage 3KV

Forward Current 5mA



特征 Features

- 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 & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数名称 Item	符号 Symbol	2CL03	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	°C
最高结温 Maximum Junction Temperature	$T_{(vj)}$	120	°C
贮存温度 Storage Temperature	T_{stg}	-40 ~ +120	°C

电特性 TA = 25°C 除非另有规定。

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

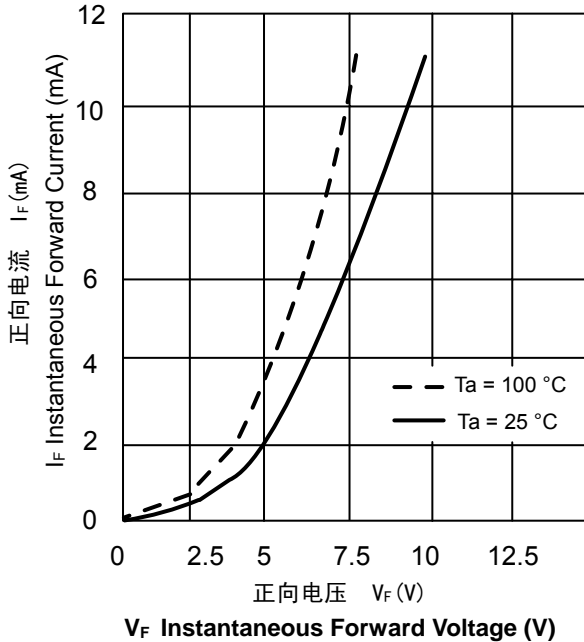
参数名称 Item	符号 Symbol	2CL03	单位 Unit
正向压降 Forward Voltage Drop	$I_F = 10\text{mA}$ V_F	13	V
常温反向漏电流 Normal Temperature Reverse Current	$V_R = V_{RRM}$ I_{RM1}	2	μA
高温反向漏电流 High Temperature Reverse Current	$T_A = 100^\circ\text{C}$ $V_R = V_{RRM}$ I_{RM2}	5	μA
反向恢复时间 Reverse Recovery Time	$I_F = 2\text{mA}, I_{rp} = 4\text{mA}$ 1mA recovery trr	100	nS



特性曲线 Characteristic Curves

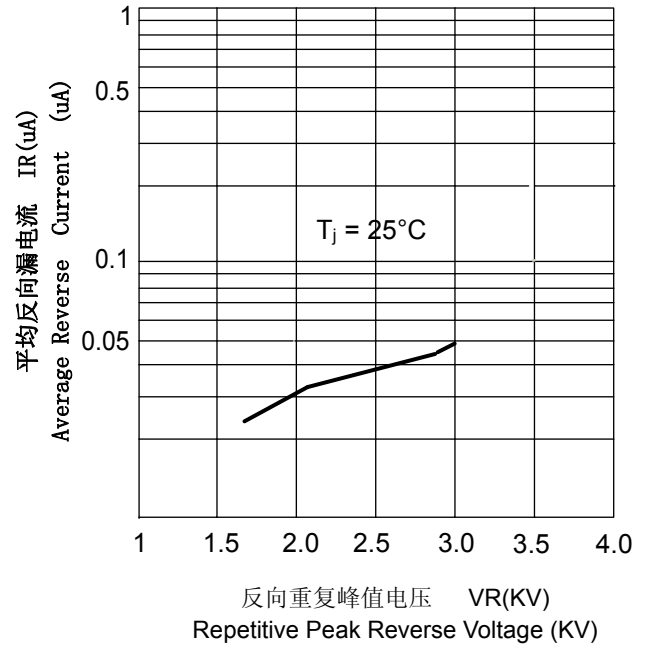
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



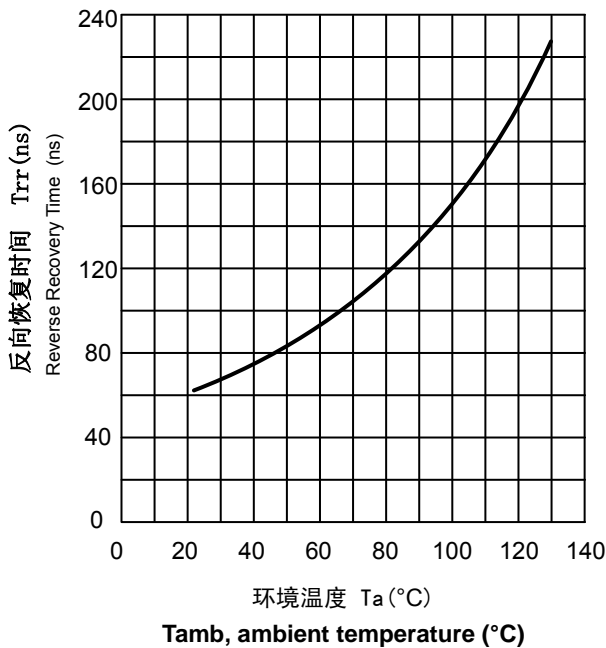
反向特性曲线

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

