

塑封高压二极管

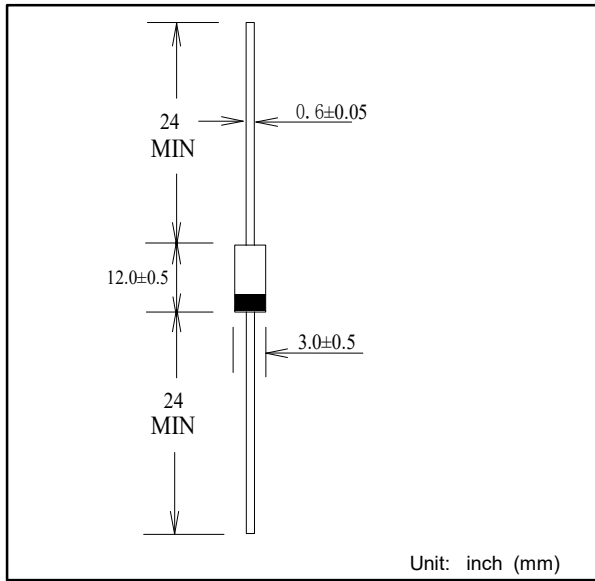
反向电压 20 KV

正向电流 5 mA

Plastic High Voltage Rectifier

Reverse Voltage 20 KV

Forward Current 5 mA



特征 Features

- $I_{F(AV)}$ 5mA
- V_{RRM} 20KV
- 高信赖性 High reliability

用途 Purpose

- 电子设备高压电源整流用
Rectification for high voltage power supply

极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

参数 Parameter	符号 Symbols	2CL77	单位 Unit
反向重复峰值电压 Repetitive peak reverse voltage	V_{RRM}	20	KV
正向平均电流 Average forward current	$I_{F(AV)}$	5.0	mA
正向不重复浪涌电流 正弦半波50HZ, 1/2周期, $T_A=25^\circ\text{C}$ Non-repetitive peak forward surge current 50HZ half-sine wave, 1/2 cycle, $T_A=25^\circ\text{C}$	I_{FSM}	0.5	A
工作环境温度 Ambient temperature range	T_{amb}	-40 --- +100	$^\circ\text{C}$
最高结温 Maximum junction temperature	$T_{(VJ)}$	120	$^\circ\text{C}$
存储温度 Storage temperature range	T_{STG}	-40 --- +120	

电特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

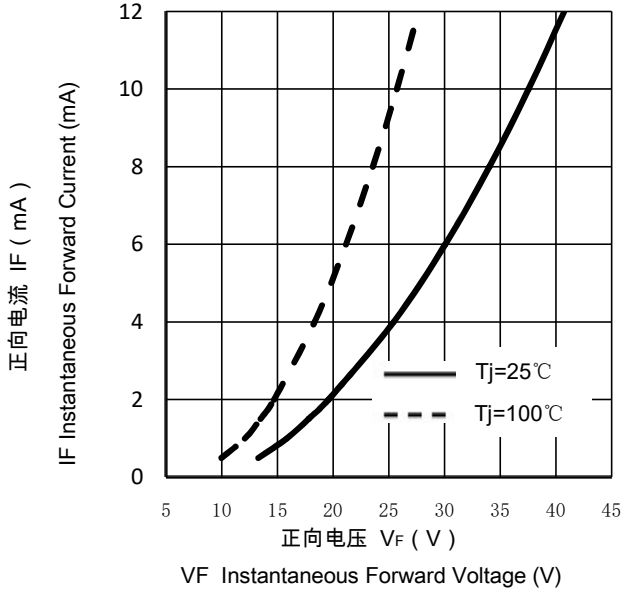
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	2CL77	单位 Unit
最大正向电压 @ $I_F=10.0\text{mA}$ Maximum forward voltage	V_F	62.5	V
最大反向电流 @ V_{DC} Maximum reverse current	I_R	$T_A = 25^\circ\text{C}$ 2	μA
		$T_A = 100^\circ\text{C}$ 5	
反向恢复时间 Reverse Recovery Time	T_{rr}	100	ns

特性曲线 Characteristic Curves

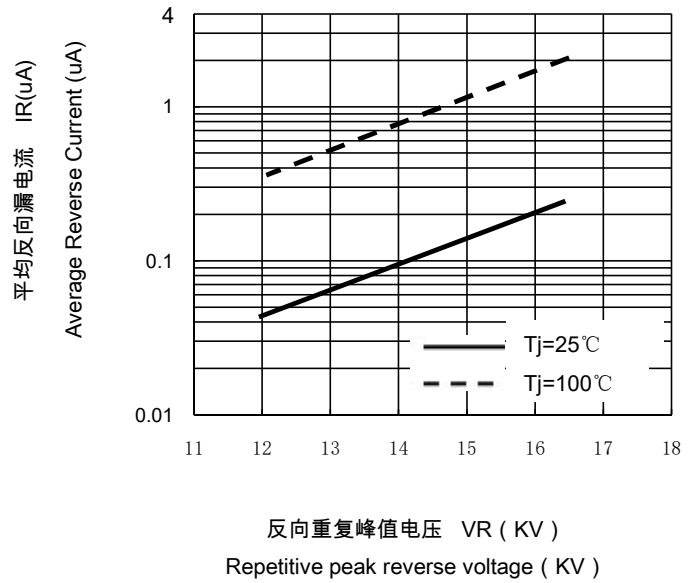
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



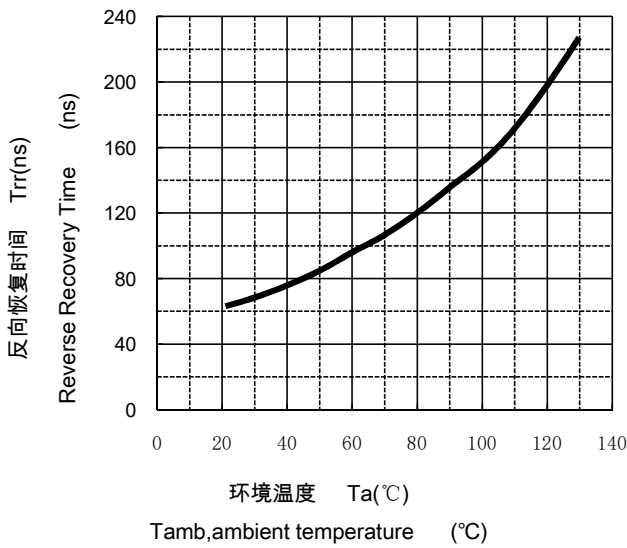
反向特性曲线

TYPICAL REVERSE CHARACTERISTIC



反向恢复时间特性

REVERSE RECOVERY TIME CHARACTERISTIC



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

