

Reverse Voltage 1~3KV

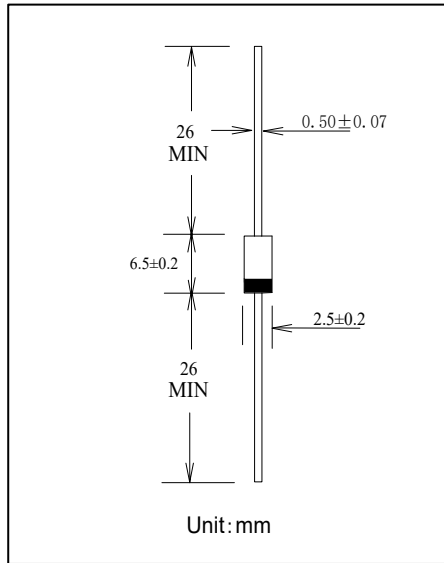
Forward Current 30mA

特征 Features

- 可燃性等级UL-94V-0
Flammability rating UL-94V-0 (Equivalent)
- 引脚不含铅
Pins Pb (lead) free

用途 Purpose

- 应用于汽车点火线圈浪涌电压吸收
Automobile ignition coil start-up voltage surge arrester



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	I3HV01	I3HV02	I3HV03	单位 Unit
反向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	1	2.5	3	KV
正向平均电流 Average Forward Current	I _{F(AV)}	30 (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}	3 (正弦半波50HZ, 1/2周期, Ta=25℃) (50HZ half-sine wave,1/2 cycle, Ta = 25 ℃)			A
反向浪涌电流 Peak Surge Reverse Current	I _{RSM}	30 (三角半波100us, 单个峰值) (Half value width:100us , Triangular-wave,peak value one shot)			mA
最高结温 Maximum Junction Temperature	T _(vJ)	150			℃
贮存温度 Storage Temperature	T _{stg}	-40 --- +150			℃

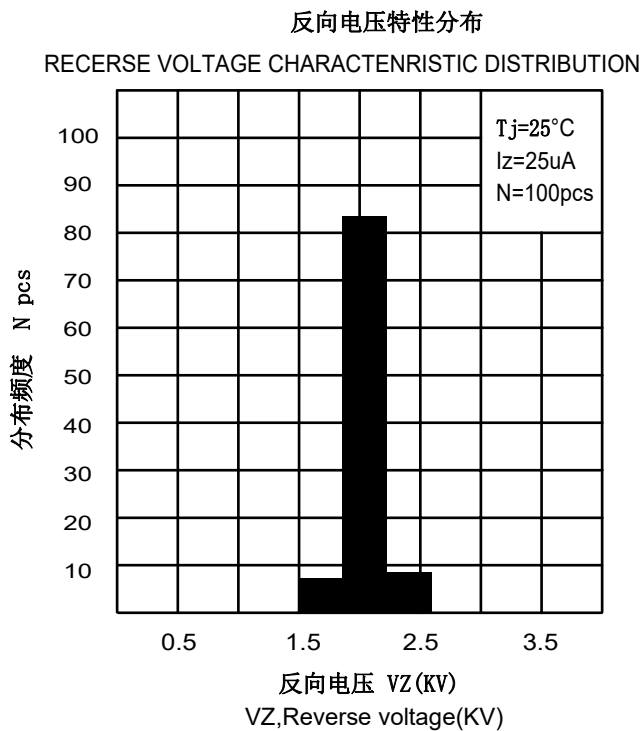
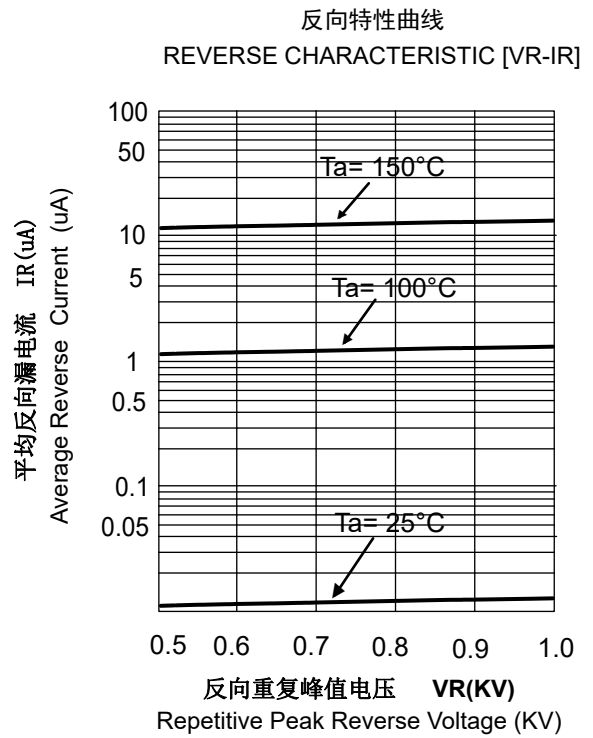
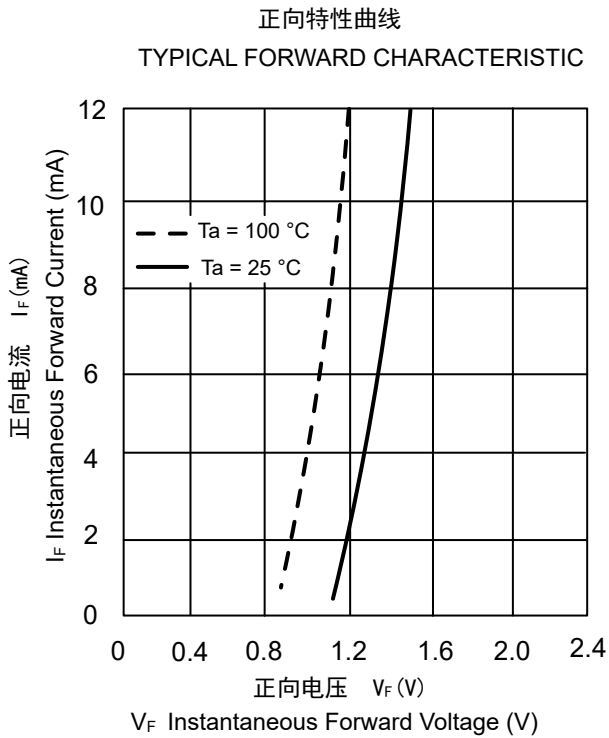
电特性 TA = 25°C 除非另有规定。

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

参数名称 Item	符号 Symbol	I3HV01	I3HV02	I3HV03	单位 Unit
最大正向压降 Max Forward Voltage Drop $I_F = 10mA$	V_F	2	5	6	V
最大常温反向漏电流 Max Normal Temperature Reverse Current $VR = V_{RRM}$	I_{RM1}	2			μA
最大高温反向漏电流 Max High Temperature Reverse Current $TA = 150^{\circ}C \ VR = V_{RRM}$	I_{RM2}	50			μA

I3HV01特性曲线

I3HV01 Characteristic Curves

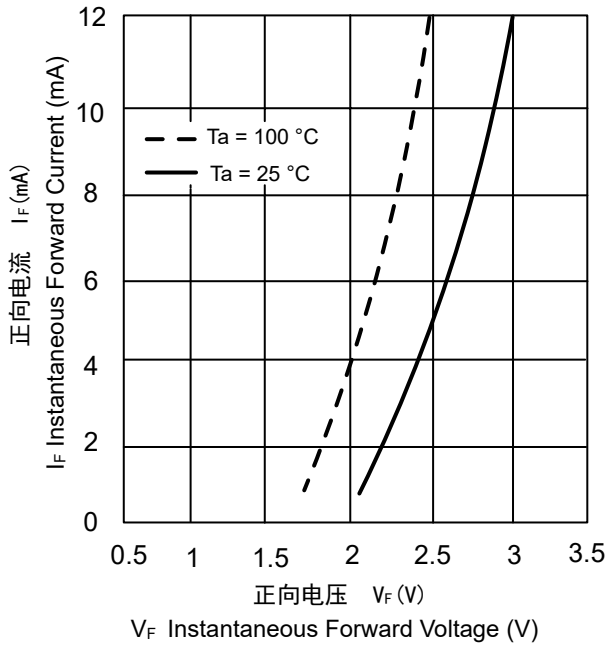


I3HV02特性曲线

I3HV02 Characteristic Curves

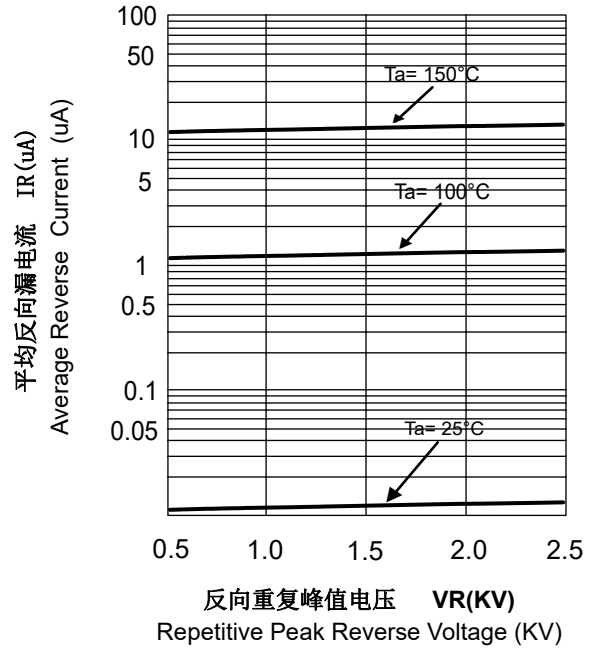
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



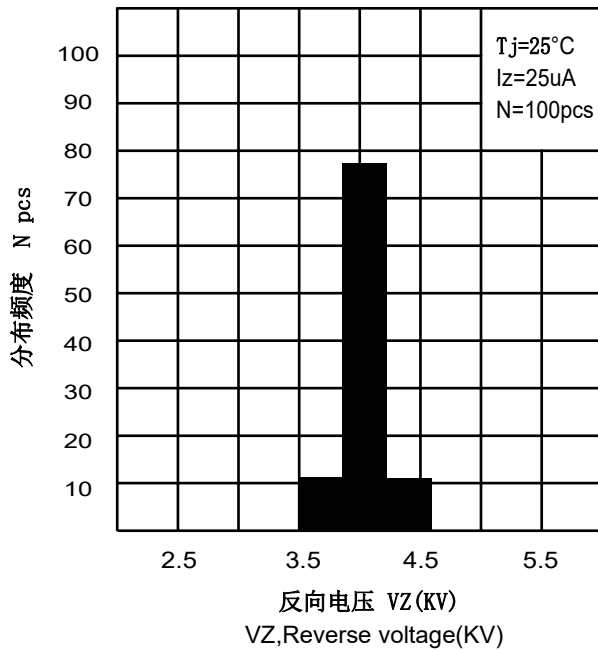
反向特性曲线

REVERSE CHARACTERISTIC [VR-IR]



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION

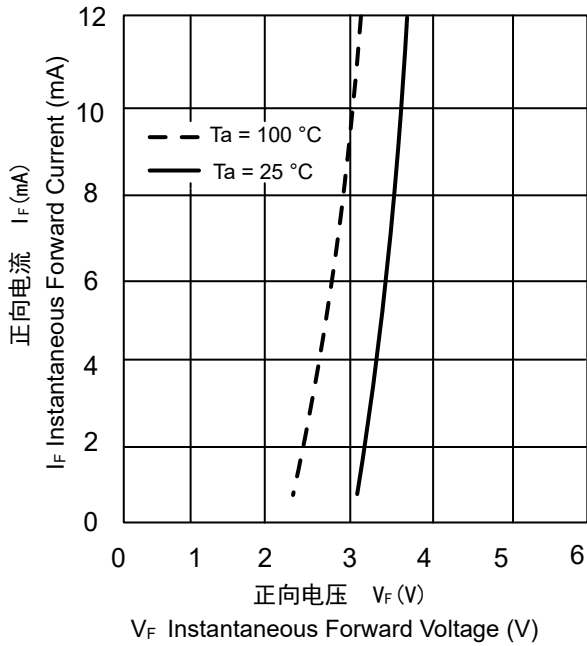


I3HV03特性曲线

I3HV03 Characteristic Curves

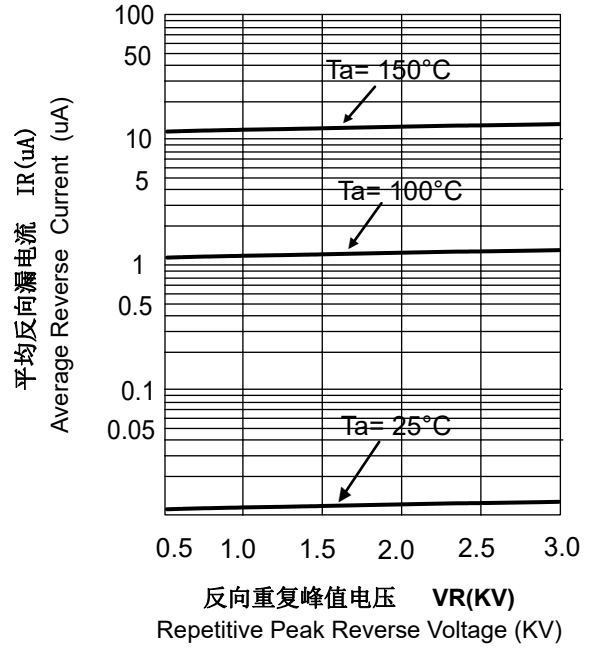
正向特性曲线

TYPICAL FORWARD CHARACTERISTIC



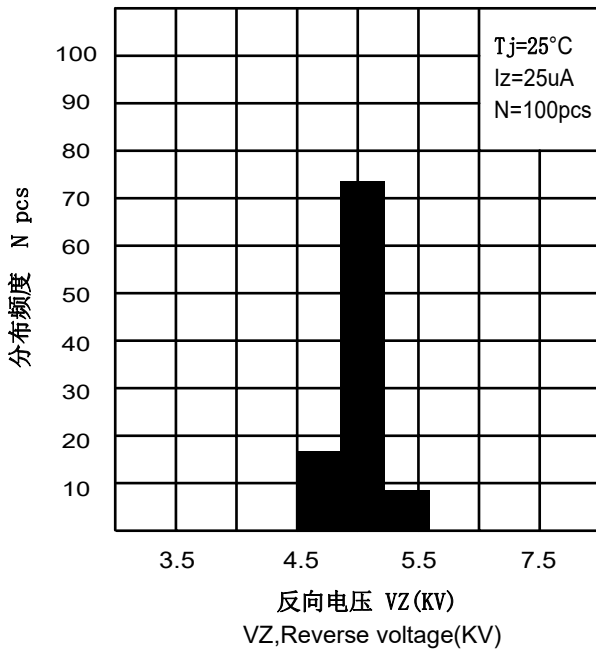
反向特性曲线

REVERSE CHARACTERISTIC [VR-IR]



反向电压特性分布

REVERSE VOLTAGE CHARACTERISTIC DISTRIBUTION



开路试验 Open Operational Test

试验条件

Test Condition

周围温度Ta:130°C

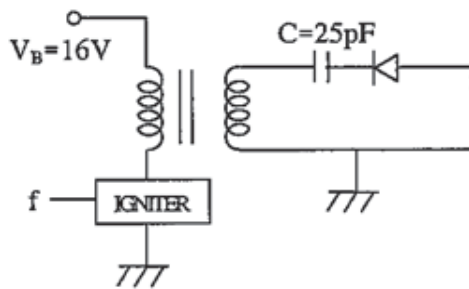
Ambient temperature:130°C

电容容量C: 25 pF

Capacity: 25 pF

1) f=66.6Hz , t=3min

2) f=33.3Hz , t=20hrs



放电试验 Spark Discharge Test

试验条件

Test Condition

周围温度Ta:130°C

Ambient temperature:130°C

二次放电电压: 25KV±5KV

Secondary discharge voltaoge: 25KV±5KV

L1:100mm 以下

L1:less than 100mm

L2:500mm 以下

L2:less than 500mm

F=66.6Hz

