



# HVM8 thru HVM16

General Purpose High Voltage Diodes

Voltage Range 8~16KV Average Forward Current 350mA

## 产品级别

### Product Grade

- 级别：民用级，工业级
- Grade: Civilian, Industry

## 技术资料

### Mechanical Data

- 封装形式：塑封
- 引线：轴向引线
- 极性：色环指示负极
- 高温焊接保证： $260\pm 5^{\circ}\text{C} \gt 10$  秒，  
焊接部位距管体 10mm 以上，引线拉力 2.3 千克
- Case: Molded plastic
- Lead: Axial leads
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed:  $260\pm 5^{\circ}\text{C} \gt 10$  seconds; 10mm lead Length, 2.3kg tension



## 产品标准

### Product Standard

#### GB/T 4589.1-2006

《半导体器件 第 10 部分：分立器件和集成电路总规范》  
*Semiconductor Devices –Part 10:*  
*Generic Specification for Discrete Devices and Integrated Circuits*

## 验收标准

### Inspection Standard

#### GB/T 4023-1997

《半导体器件分立器件和集成电路 第 2 部分：整流二极管》  
*Semiconductor Devices Discrete Devices and Integrated Circuits Part 2: Rectifier Diodes*

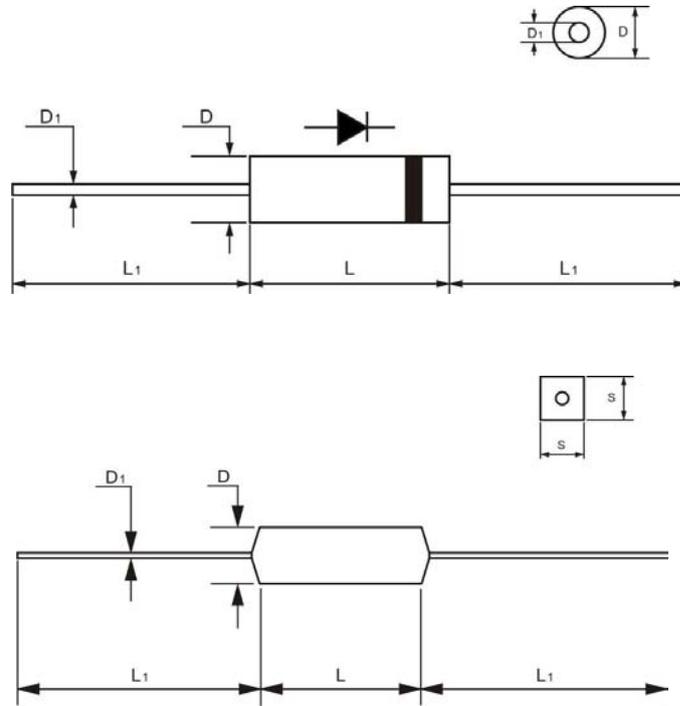
**Ratings and Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, resistive or inductive load.

For capacitive load, derate current by 20%.

参数 Parameter	符号 Symbol	HVM8	HVM9	HVM12	HVM16	单位 Unit
最大反向重复峰值电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	8	9	12	16	kV
最大反向不重复峰值电压 Maximum non-repetitive peak reverse voltage	$V_{RSM}$	10	11	14	18	kV
最大正向平均电流 Maximum average forward rectified current	$I_{F(AV)}$	350	(正弦半波, 电阻负载, $T_A=25^\circ\text{C}$ ) (50Hz Half-sine wave, resistance load, $T_A=25^\circ\text{C}$ )			mA
正向峰值浪涌电流 Peak forward surge current	$I_{FSM}$	30	(正弦半波 50Hz, 一个周期, $T_A=25^\circ\text{C}$ ) (50Hz Half-sine wave, 1 cycle, $T_A=25^\circ\text{C}$ )			A
最大瞬时正向压降 ( $I_F=350\text{mA}$ ) Maximum instantaneous forward voltage @ 350mA	$V_F$	9	12	12	14	V
最大直流反向电流 Maximum DC reverse current	$I_R$	$\leq 5.0$ ( $T_A=25^\circ\text{C}$ )				$\mu\text{A}$
		$\leq 100$ ( $T_A=100^\circ\text{C}$ )				
有效工作结温 Operating virtual junction temperature range	$T_J$	民用级 (Civilian)		工业级 (Industry)		$^\circ\text{C}$
		-40 to +100		-40 to +110		
贮存温度范围 Storage temperature range	$T_{STG}$	民用级 (Civilian)		工业级 (Industry)		$^\circ\text{C}$
		-40 to +120		-40 to +125		

**Outline Dimensions**


参数 Parameter	符号 Symbol	HVM8	HVM9	HVM12	HVM16	单位 Unit
管体直径 Case Diameter	D	$\Phi 7.5 \pm 0.5$				mm
管体边长 Side Length	S	$7 \pm 0.5$				mm
管体长度 Case Length	L	$21 \pm 1$				mm
引线直径 Lead Diameter	D <sub>1</sub>	$\Phi 1.2 \pm 0.1$				mm
引线长度 Lead Length	L <sub>1</sub>	$22 \pm 2$				mm