

# UHVM6-UHVM8-350

## Features

Controlled avalanche characteristic combined with the ability to dissipate reverse power  
 Plastic package has underwriters laboratory flammability classification 94V-0  
 Low forward voltage drop  
 Typical  $I_r$  less than 1 eA  
 High overload surge capability  
 High temperature soldering guaranteed  
 260-C/10s/.375" (9.5mm) lead length at 5 lbs., (2.3kg) tension



## Mechanical data

**Case:** Reliable low cost construction utilizing molded plastic technique  
**Terminals:** Axial leads. Solderable per MIL-STD-202 Method 208  
**Polarity:** Any  
**Weight:** 2.6 g

We declare that the material of product compliance with RoHS requirements.

## 1. Electrical Characteristic

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

Parameter	Symbol	UHVM6	UHVM7	UHVM8	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	6000	7000	8000	V
Maximum RMS voltage	$V_{RMS}$	4200	4900	5600	V
Maximum DC blocking voltage	$V_{DC}$	6000	7000	8000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55-C	$I_o$	350			mA
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30			A
Operating junction and storage temperature range	$T_J, T_{STG}$	-40 to +130			-C

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

Parameter	Symbol	UHVM6	UHVM7	UHVM8	Unit
Maximum instantaneous forward voltage at 350mA	$V_F$	14			V
Maximum reverse recovery time(note:1)	$T_{RR}$	150			nS
Maximum DC reverse current at rated DC blocking voltage TA=25-C	$I_R$	10.0			$\mu A$

**Note:** (1) reverse recovery test condition:  $I_F = I_R = 100mA$ ; 90% recovery point

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## 2. Ratings and Characteristic Curves(TA= 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

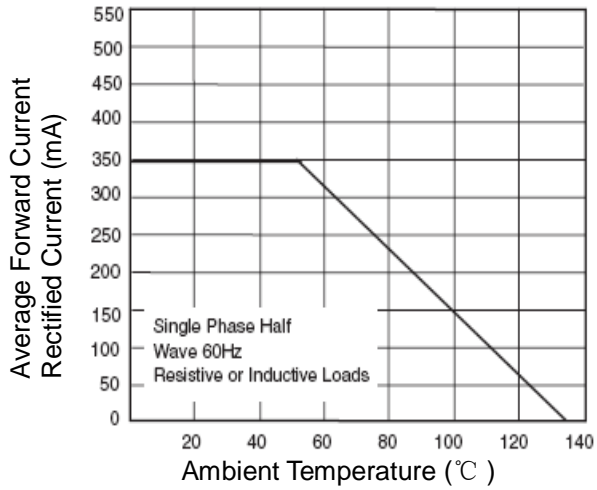


Fig. 2 - Typical Instantaneous Forward Characteristics

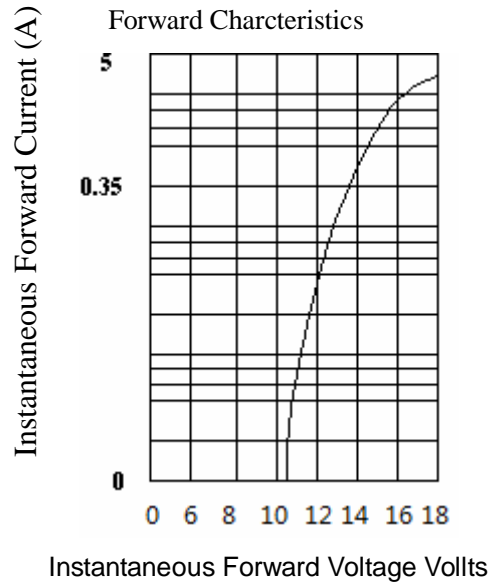
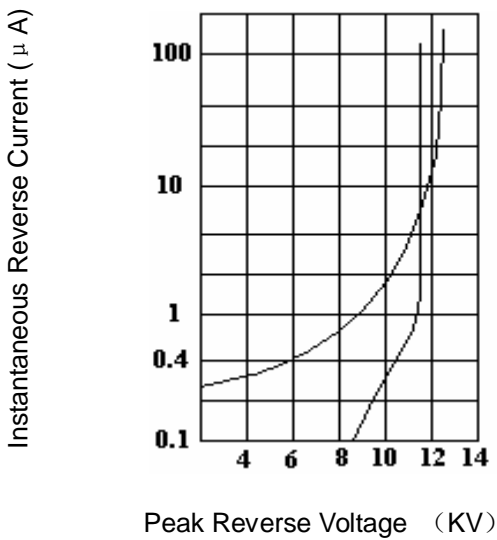
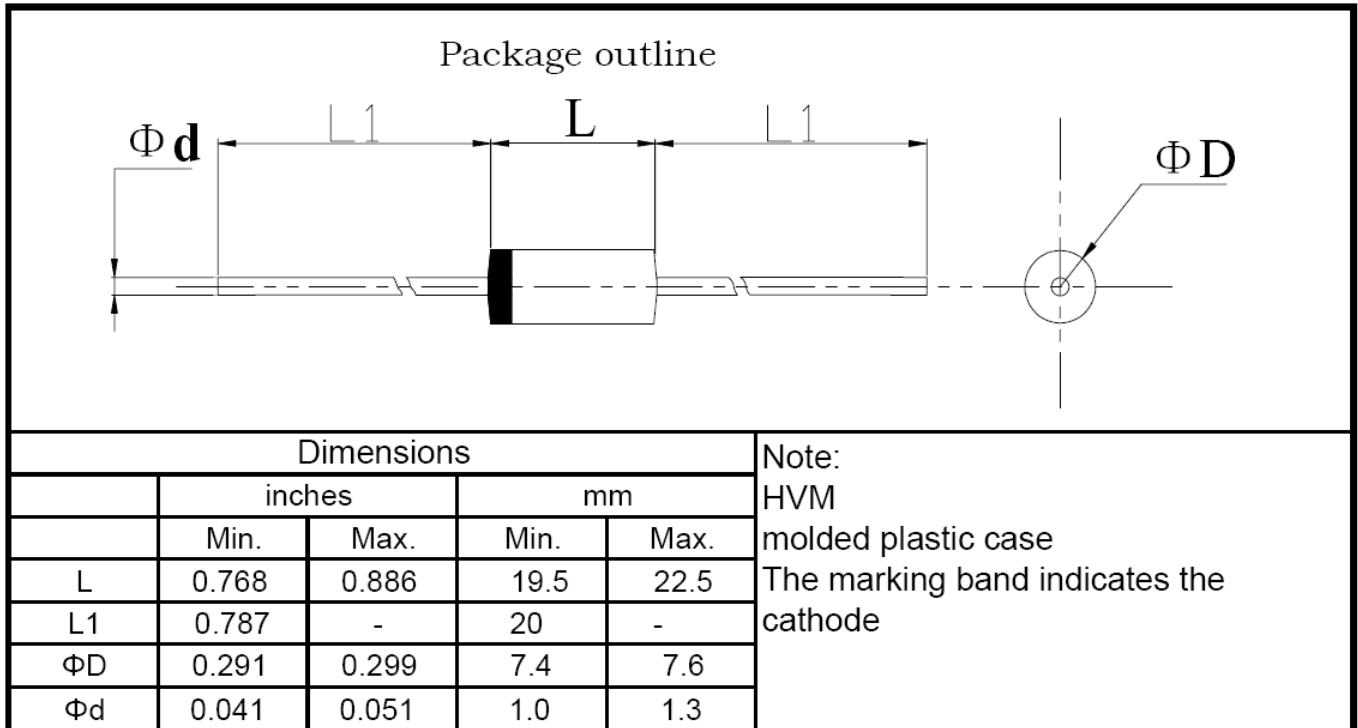


Fig. 3 - Typical Reverse Characteristics

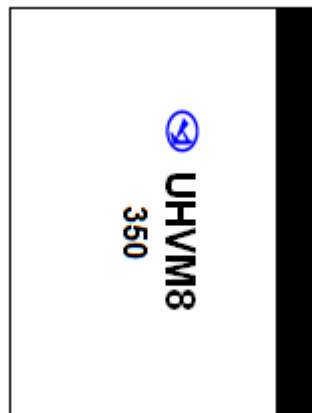


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## 3. Dimensions



印字规范:





**LRC**

乐山无线电股份有限公司  
Leshan Radio Company, Ltd

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### 4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	余波	2012-2-10