

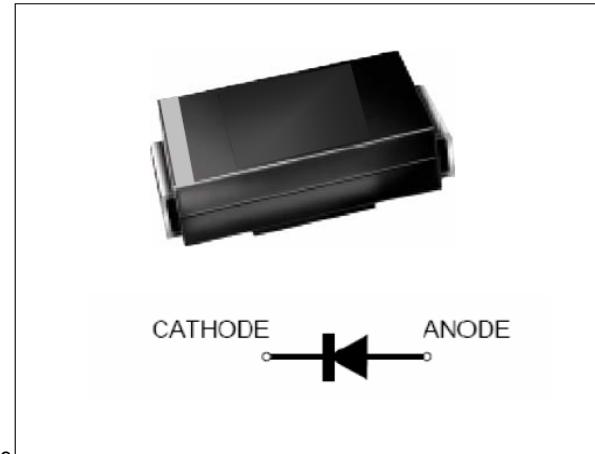
# S-HFM108

Surface Mount Glass Passivated High Efficiency Rectifiers

Reverse Voltage 1000V Forward Current 1.0A

## FEATURES

- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* High temperature metallurgically bonded construction
- \* For use in high frequency rectifier circuits
- \* Fast switching for high efficiency
- \* Cavity-free glass passivated junction
- \* Capable of meeting environmental standards of MIL-S-19500
- \* 1.0 A operation at TL=100°C with no thermal runaway
- \* Typical IR less than 1.0µA
- \* High temperature soldering guaranteed:  
260°C/10 seconds
- \* S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and We declare that the material of product compliance with ROHS requirements  
PPAP Capable.



## 2. Mechanical Data

**Case:** JEDEC DO-214AC, molded plastic over glass body

**Terminals:** Plated axial leads, solderable per

MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.0023 oz., 0.065 g

**Handling Precaution:** None

## Electrical Characteristic

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

Parameter Symbol	symbol	S-HFM108	Unit
Device marking code		HF8	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	1000	V
Maximum RSM voltage	V <sub>RSM</sub>	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	1000	V
Maximum average forward rectified current at TL = 100°C	IF(AV)	1.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30	A
Typical thermal resistance (Note 2)	R <sub>θJA</sub>	150	°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>TSG</sub>	-50 to +150	°C

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

Parameter Symbol	symbol	S-HFM108	Unit
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.7	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage T <sub>J</sub> = 125°C	IR	5.0 100	µA
Typical reverse recovery time (Note 1)	trr	75	ns
Typical junction capacitance at 4.0V, 1MHz	C <sub>J</sub>	15.0	PF

#### NOTES:

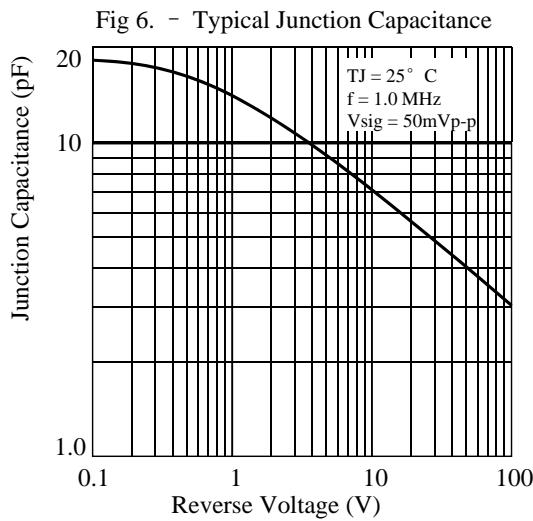
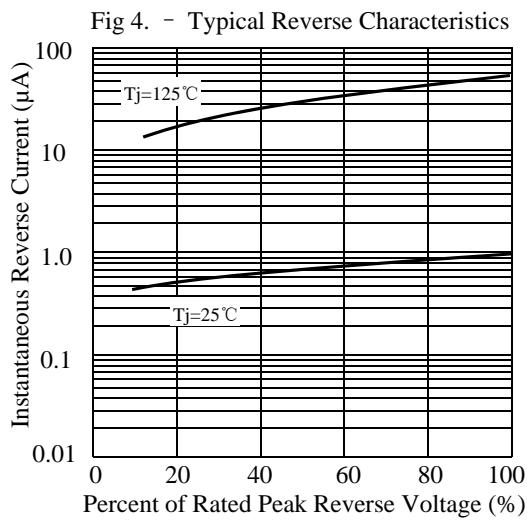
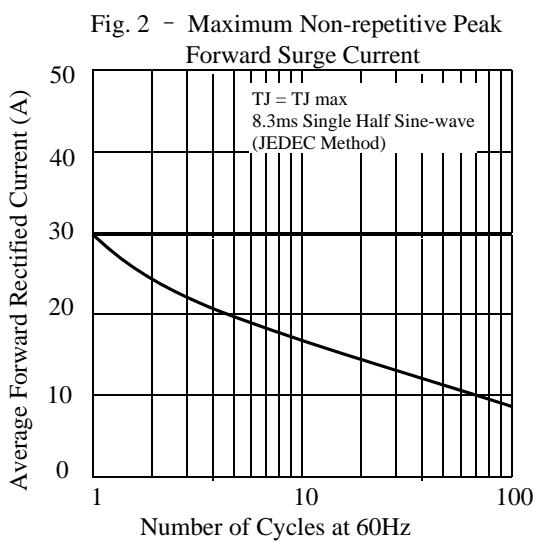
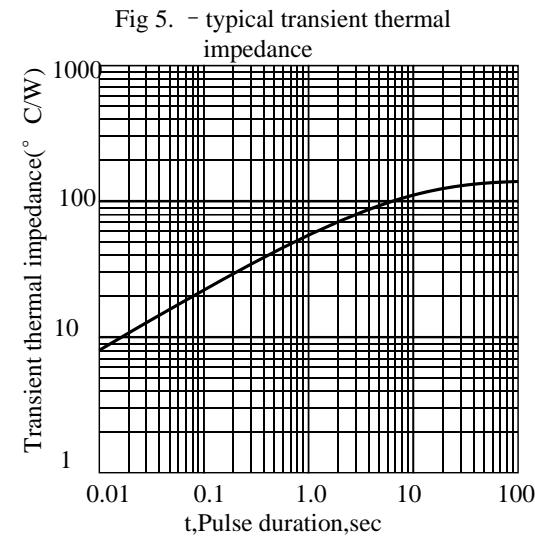
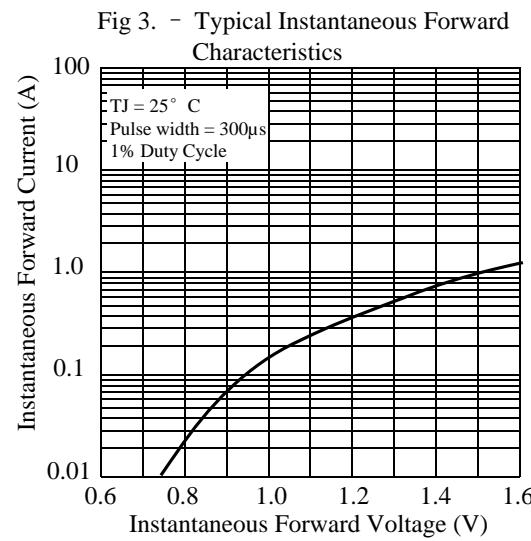
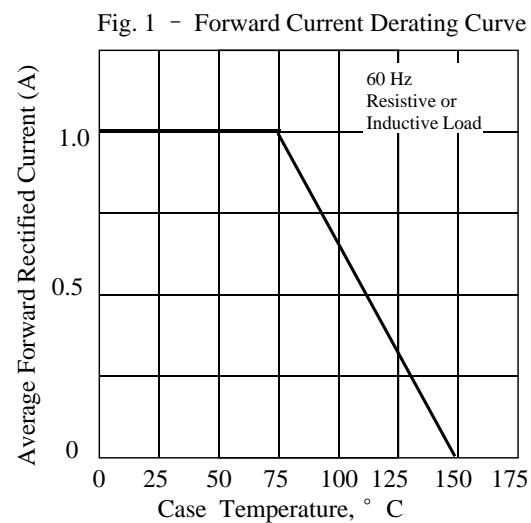
1. IF = 0.5A, IR = 1.0A, I<sub>RR</sub> = 0.25A

2. 8.0mm<sup>2</sup> (.013mm thick) lead areas

3. VF & TRR & VDC & IR all test; other parameter is scheme out.

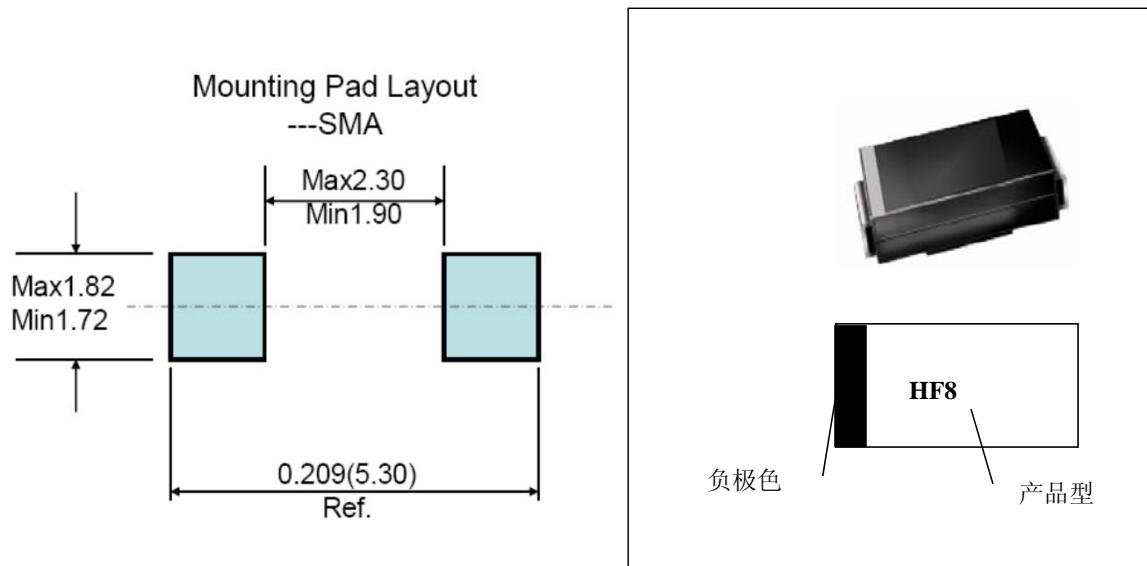
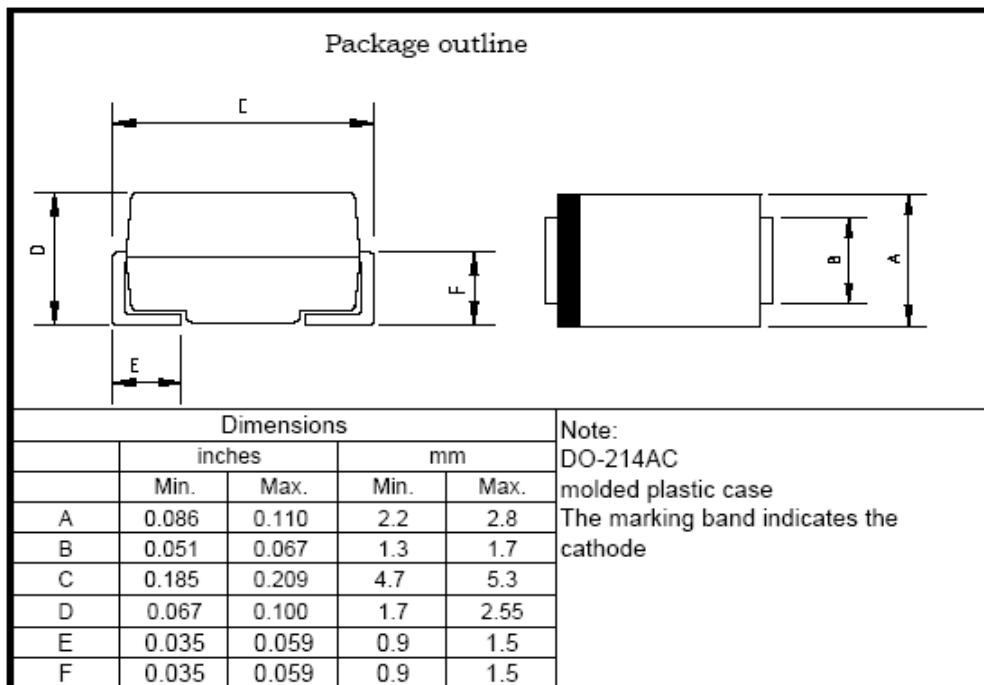
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## 2.Ratings and Characteristic Curves ( TA = 25°C unless otherwise noted )



## S-HFM108

### 3. dimension:



**S-HFM108: S-- 满足AECQ101可靠性标准； HF----高效二极管； M---贴片产品； 1----IF=1A； 108----VB=1000V；**

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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	谭志伟	2017-10-30