

# SMFB13W

## Surface Mount Schottky Barrier Rectifier

Switching Type Power Supply Applications

### Features

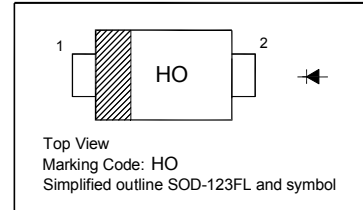
- For Use in Low Voltage, High Frequency inverters,
- Free Wheeling, and Polarity Protection Applications

### Application

- Switching Power Supply
- Reversed Battery Connection Protection
- DC/DC Converter
- Cellular Phones

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Average Rectified Output Current	$I_{F(AV)}$	1.0	A
Non-Repetitive Peak Forward Surge Current (8.3 ms)	$I_{FSM}$	22	A
Operating Temperature Range	$T_j$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

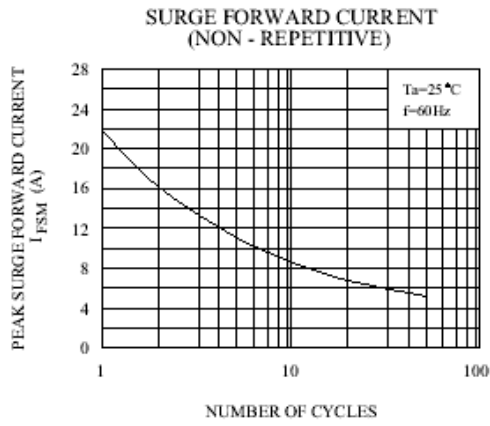
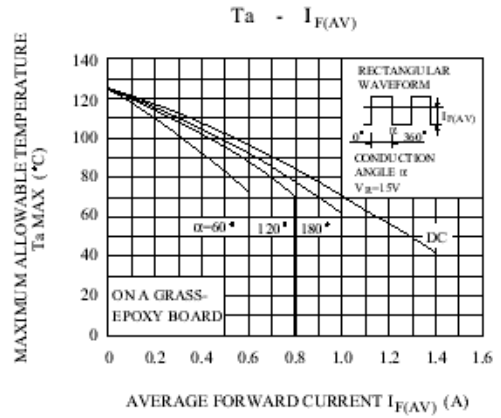
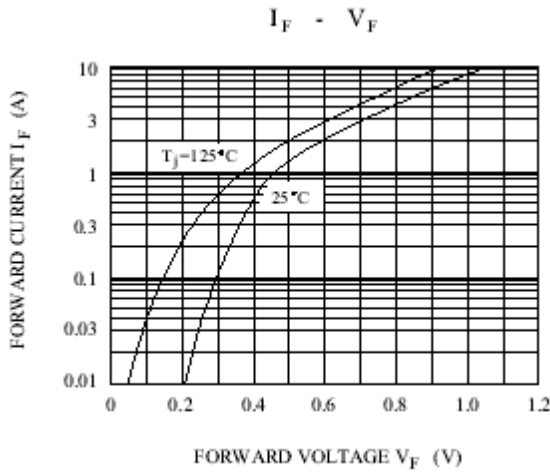
Parameter	Symbol	Max.	Unit
Peak Forward Voltage at $I_F = 1\text{ A}$	$V_F$	0.42	V
Repetitive Peak Reverse Current at $V_R = 30\text{ V}$	$I_R$	50	$\mu\text{A}$

**TOP DYNAMIC**



Dated: 05/08/2013 Rev: 01

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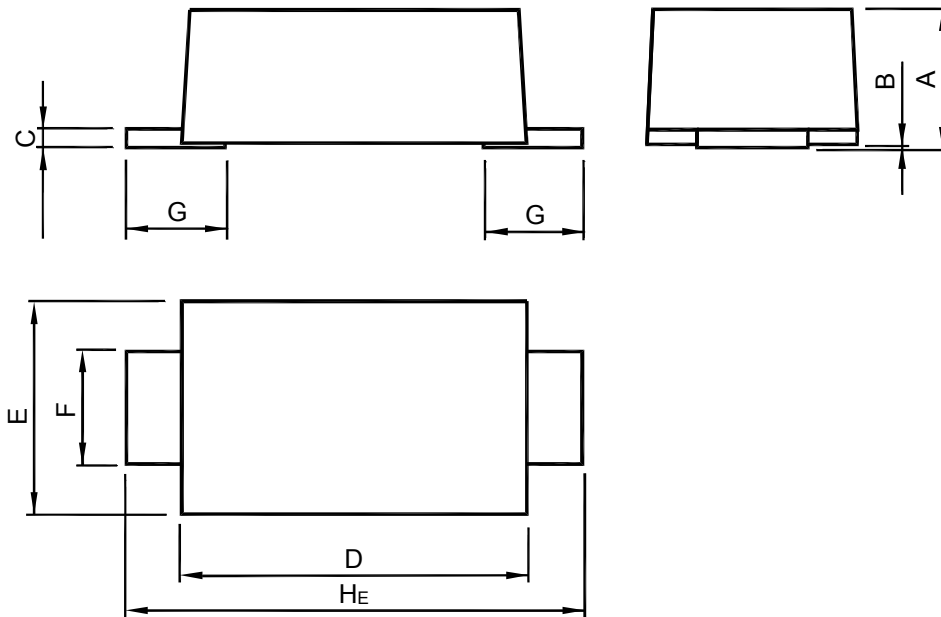


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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H <sub>E</sub>
mm	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5

**TOP DYNAMIC**



ISO14001 : 2004 Certificate No. 121505007  
 ISO 9001 : 2008 Certificate No. 52114012  
 OHSAS 18001 : 2007 Certificate No. 05191508008  
 IECQ QC 080000 Certificate No. E22#180007#4#R2

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