

SWM01U30

Surface Mount Schottky Barrier Rectifier

Switching Type Power Supply Applications

Features

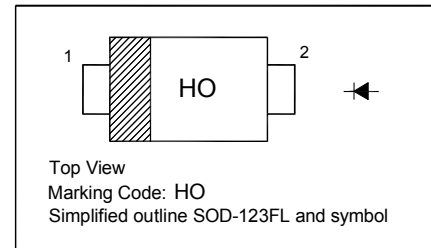
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications

Application

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

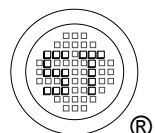


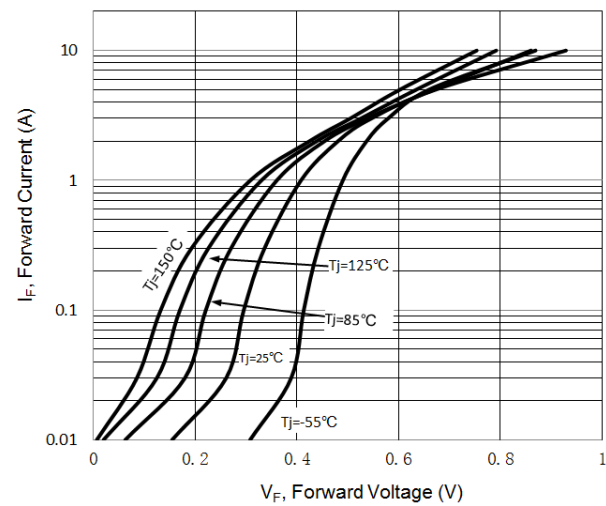
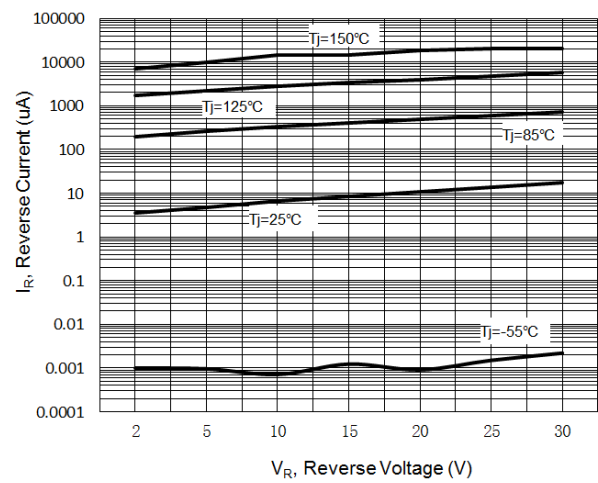
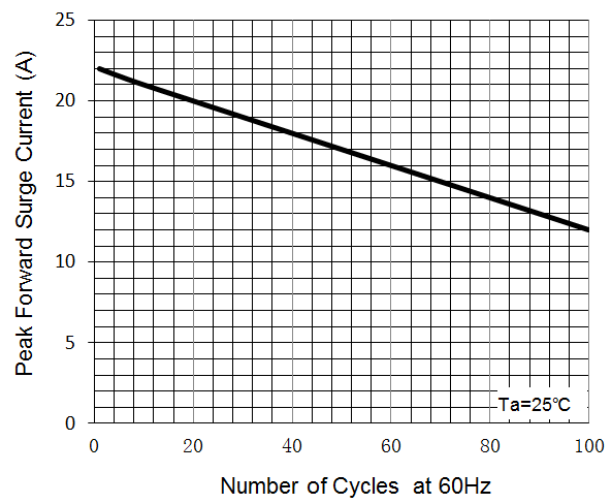
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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	μA



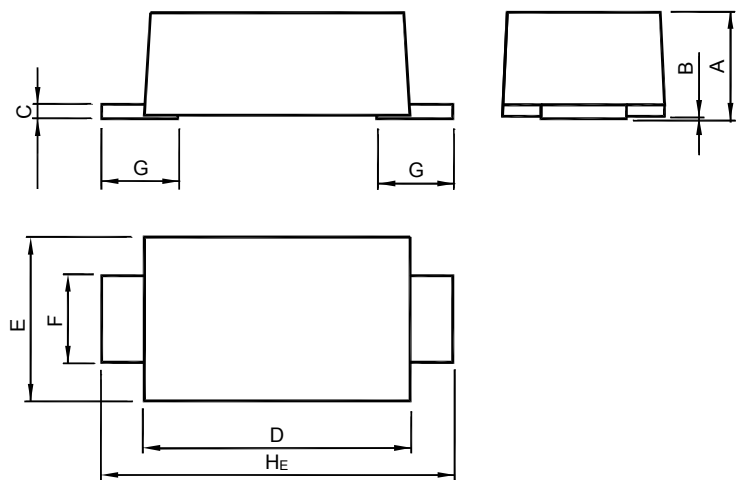


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PACKAGE OUTLINE

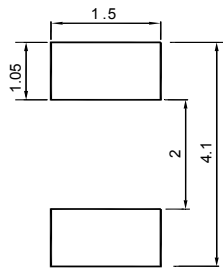
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H _E
mm	1.08 0.88	0.1 0	0.2 0.1	2.9 2.7	1.9 1.7	1.1 0.8	0.85 0.45	3.9 3.5

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" III " = Cathode line
" HO " = Part No.
Font type: Arial

