

SB060FW-30-AH

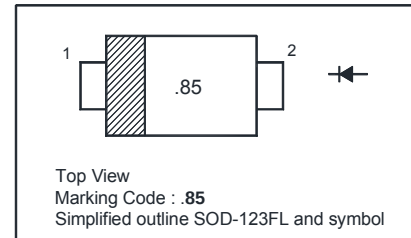
Surface Mount Schottky Barrier Rectifier

Features

- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF),
RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



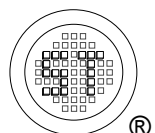
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Reverse Voltage	V_R	30	V
Average Forward Rectified Current	$I_{F(AV)}$	2	A
Non-Repetitive Peak Forward Surge Current (8.3 ms)	I_{FSM}	55	A
Junction Temperature	T_j	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	Min.	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$ at $I_F = 2\text{ A}$	V_F	0.32 0.36	0.45 0.49	V
Reverse Current at $V_R = 30\text{ V}$	I_R	-	50	μA
ESD Break Down Voltage ¹⁾ at $C = 200\text{ pF}$, $R = 0\ \Omega$	ESD	7	-	KV

¹⁾ Forward and Reverse: 1 time



Electrical characteristic curves

Fig 1. Reverse Characteristic Curve

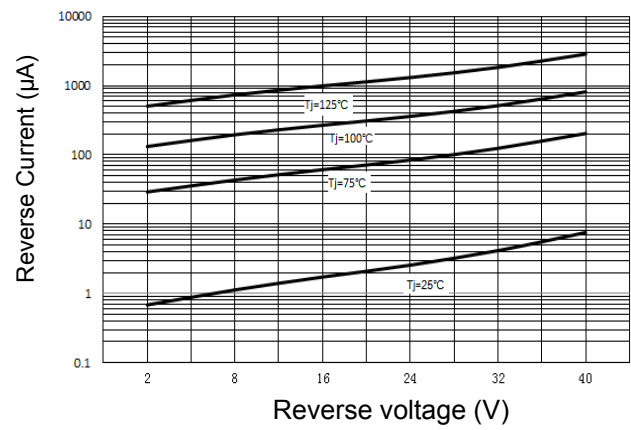


Fig 2. Forward Characteristic Curve

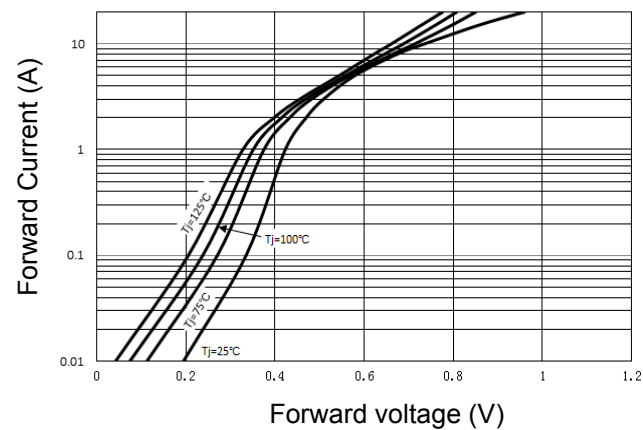


Fig 3. Junction Capacitance

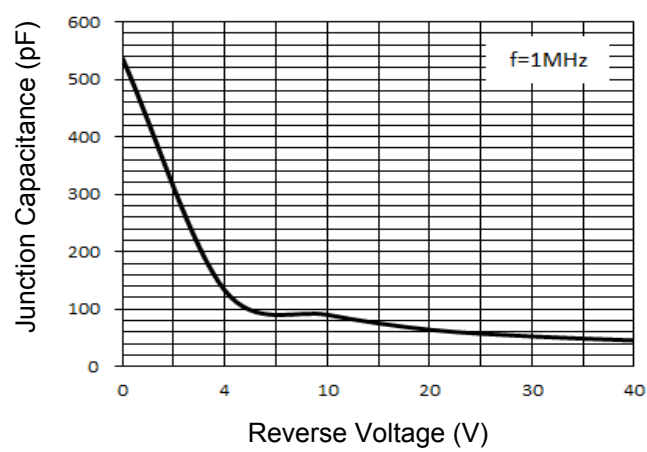
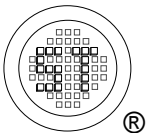
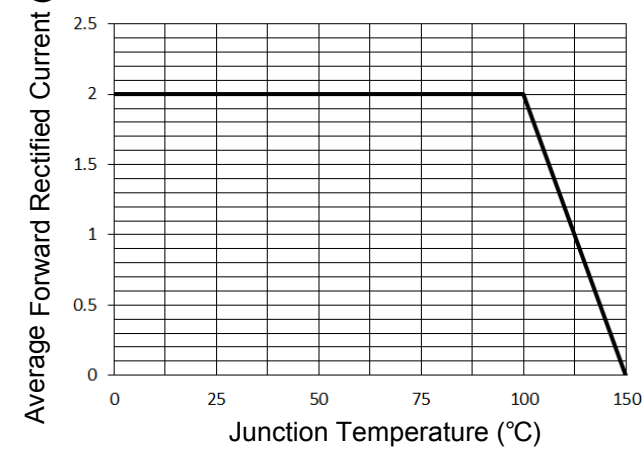


Fig 4. Forward Current Derating Curve

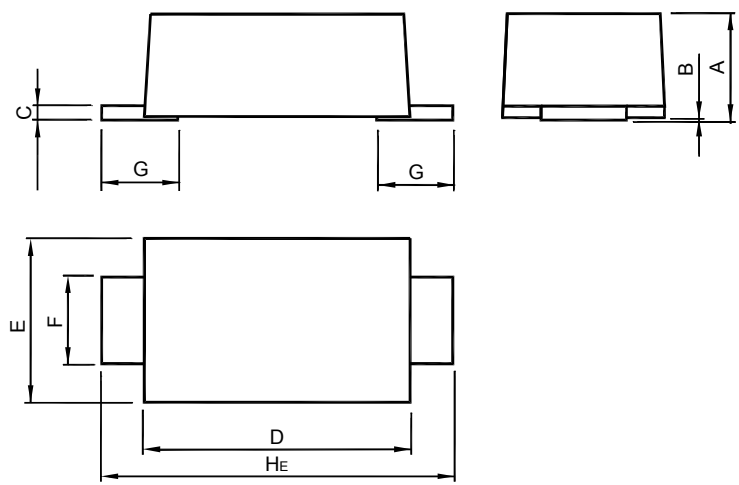


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PACKAGE OUTLINE

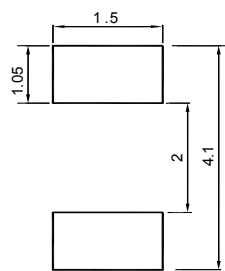
Plastic surface mounted package; 2 leads

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
" • " = HAF (Halogen and Antimony Free)
" 85 " = Part No.
Font type: Arial

