

SB160FW-30

Surface Mount Schottky Barrier Rectifier

Features

- Low reverse current
- High reliability
- Low forward voltage drop

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



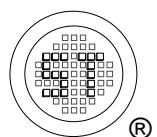
Top View
Marking Code: A0
Simplified outline SOD-123FL and symbol

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 Rectified Forward Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current (8.3 ms)	I_{FSM}	30	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.5 \text{ A}$ at $I_F = 1 \text{ A}$	V_F	0.46 0.48	V
Reverse Current at $V_R = 15 \text{ V}$ at $V_R = 30 \text{ V}$	I_R	20 50	μA
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	264 Typ.	pF



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Fig 1. Reverse Current VS Reverse Voltage

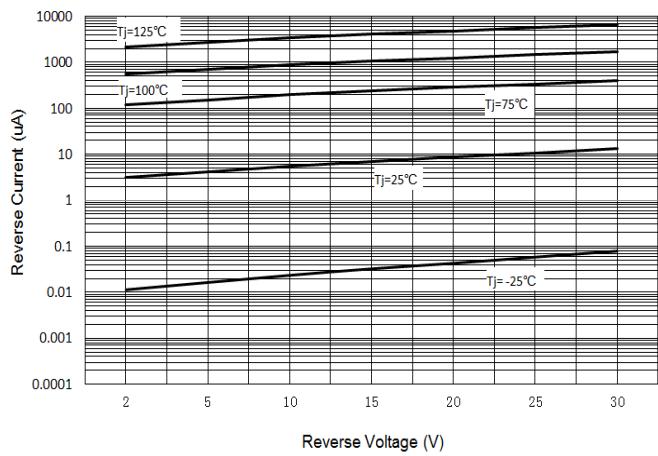


Fig 2. Forward Current VS Forward Voltage

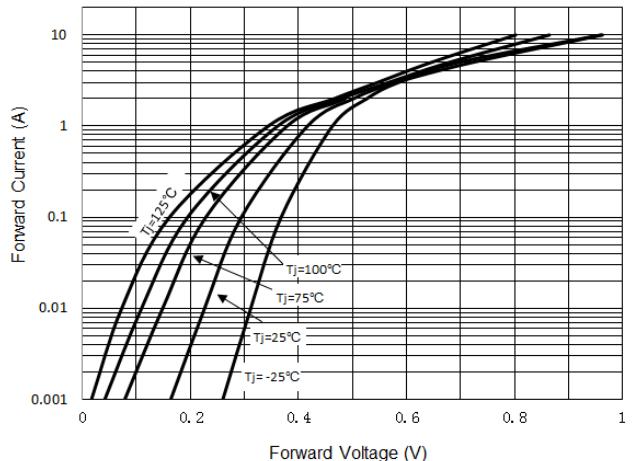


Fig 3. Junction Capacitance

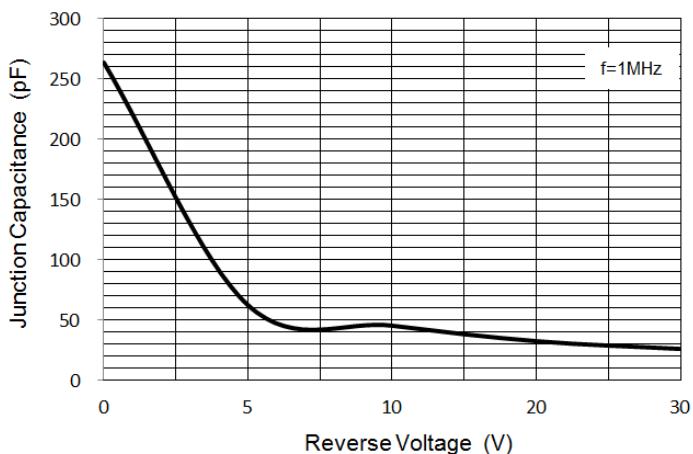
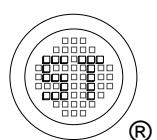
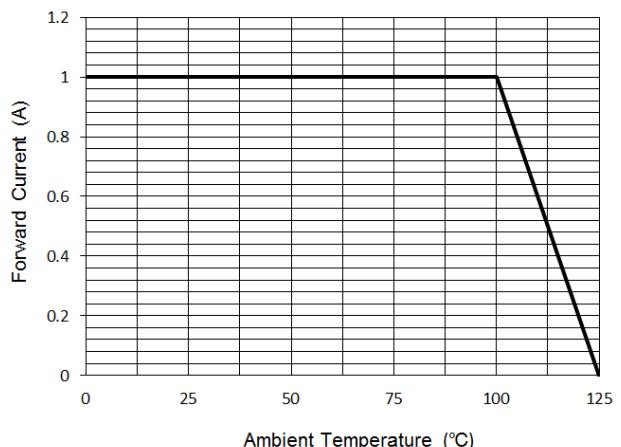


Fig 4. Forward Current Derating Curve

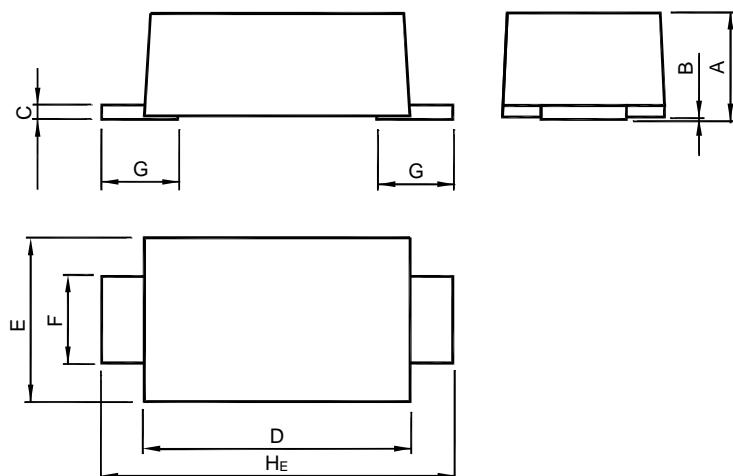


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PACKAGE OUTLINE

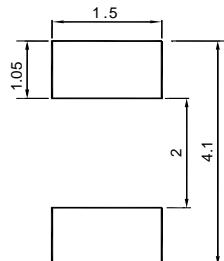
Plastic surface mounted package; 2 leads

SOD-123FL



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

" A0 " = Part No.

Font type: Arial

