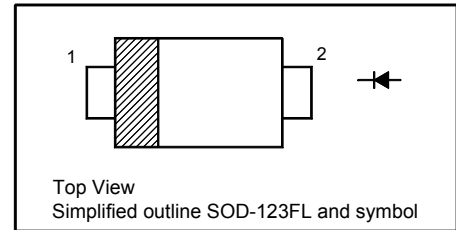


# SB160FW-60

## Surface Mount Schottky Barrier Rectifier

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

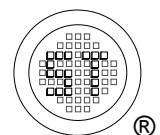


### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RM}$	60	V
Reverse Voltage	$V_R$	60	V
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30	A
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 40 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	60	-	-	V
Forward Voltage at $I_F = 1 \text{ A}$	$V_F$	-	-	0.55	V
Reverse Current at $V_R = 60 \text{ V}$	$I_R$	-	-	50	$\mu\text{A}$
Total Capacitance at $V_R = 10 \text{ V}$ , $f = 1 \text{ MHz}$	$C_T$	-	40	-	pF



## Electrical Characteristics Curves

Fig 1. Average Rectified Current Derating Curve

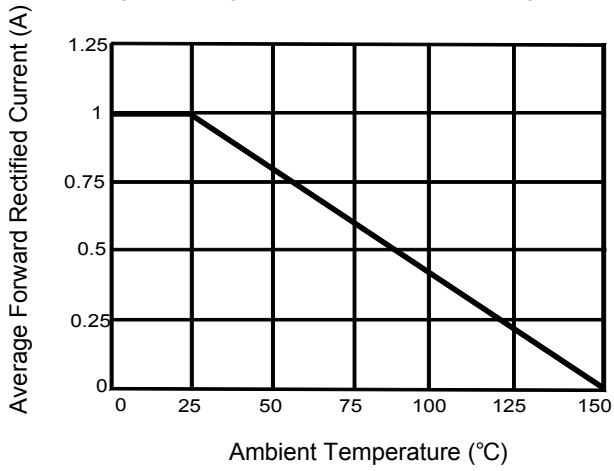


Fig 2. Forward Characteristics Curve

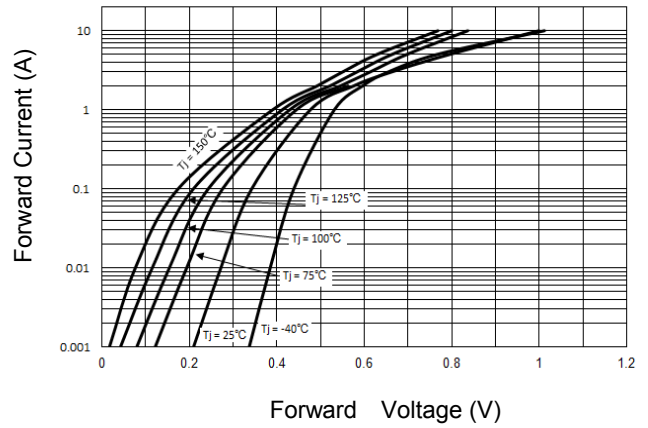


Fig 3. Reverse Characteristics Curve

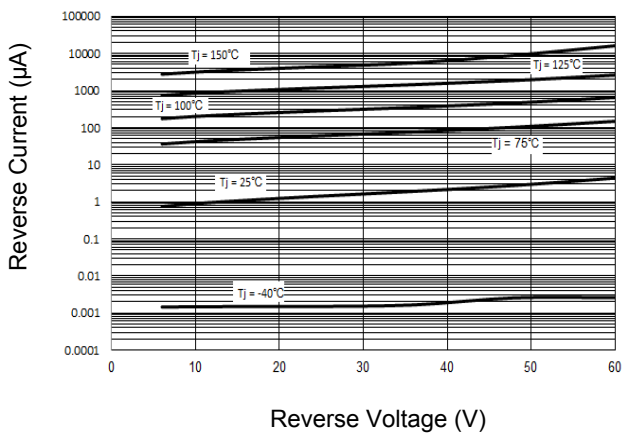
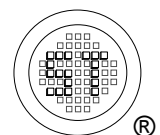
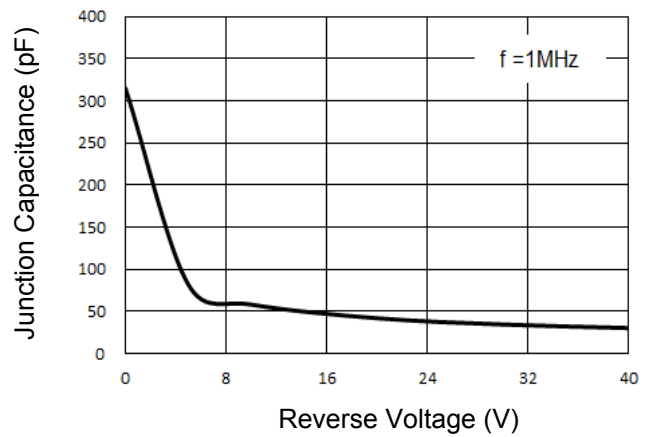


Fig 4. Junction Capacitance

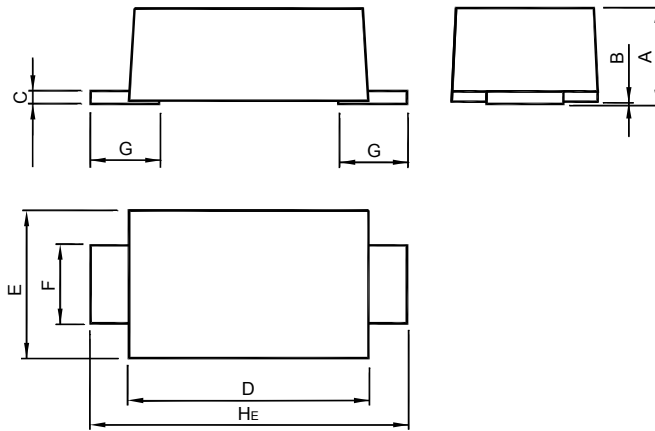


# SB160FW-60

## PACKAGE OUTLINE

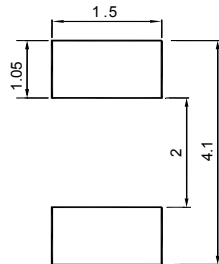
Plastic surface mounted package; 2 leads

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	0.85	3.9
	0.88	0	0.1	2.7	1.7	0.8	0.45	3.5

## Recommended Soldering Footprint



## Packing information

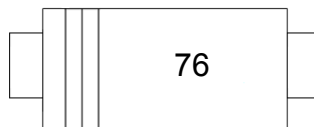
Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

## Marking information

" 76 " = Part No.

" III " = Cathode line

Font type: Arial



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