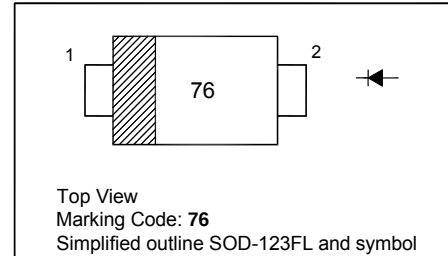


SB160FW-60

Surface Mount Schottky Barrier Rectifiers

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}	60	V
Reverse Voltage	V_R	60	V
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Forward Surge Current (8.3 ms)	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
Forward Voltage at $I_F = 1\text{ A}$	V_F	-	-	0.55	V
Reverse Current at $V_R = 60\text{ V}$	I_R	-	-	50	μA
Total Capacitance at $V_R = 10\text{ V}$, $f = 1\text{ MHz}$	C_T	-	40	-	pF

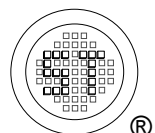


Fig 1. Reverse Current VS Reverse Voltage

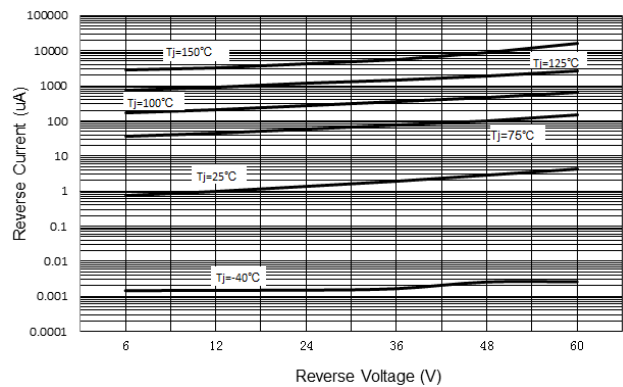


Fig 2. Forward Current VS Forward Voltage

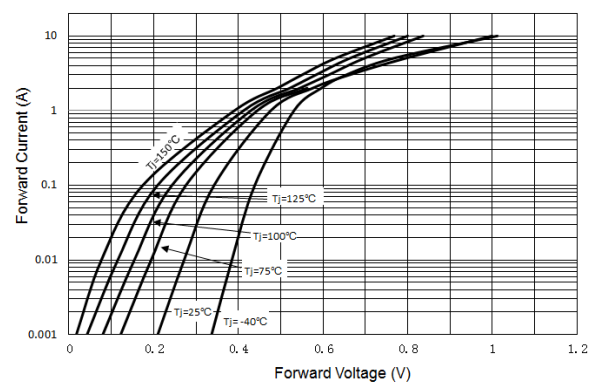


Fig 3. Junction Capacitance

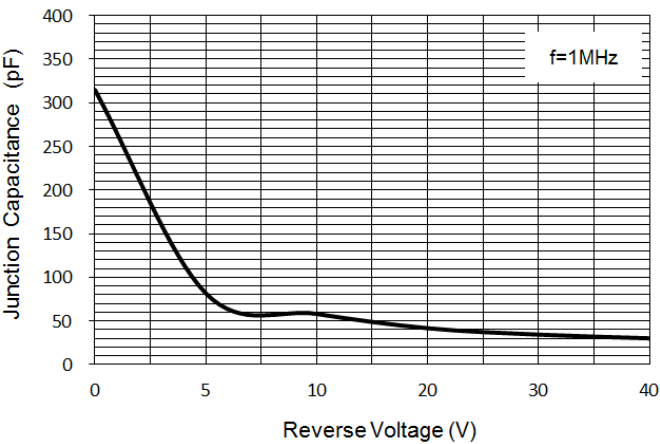
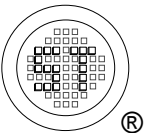
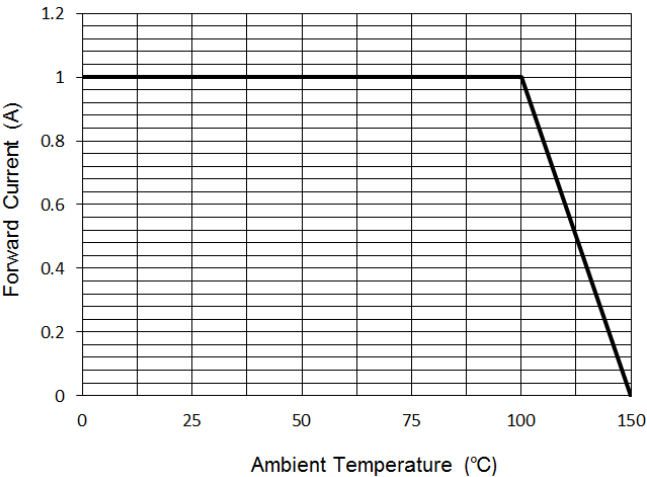


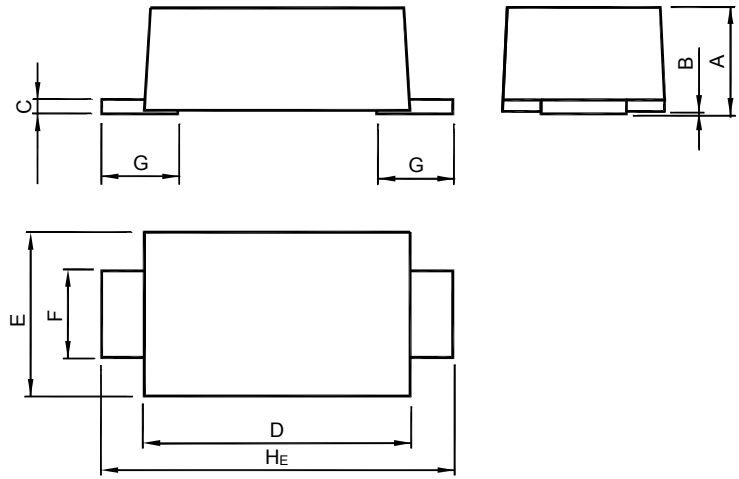
Fig 4. Forward Current Derating Curve



PACKAGE OUTLINE

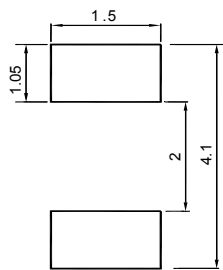
Plastic surface mounted package; 2 leads

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

" 76 " = Part No.

Font type: Arial

