

# SFW02U40S

## Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V

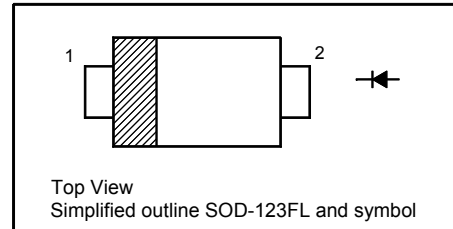
Forward Current - 2 A

### Features

- Ultra low forward voltage
- Ultra small mold type
- High reliability

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings and Characteristics

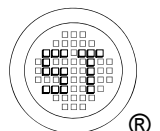
Ratings at 25°C ambient temperature unless otherwise specified, single phase, half wave, resistive or inductive load.

For capacitive load, derate by 20%

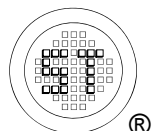
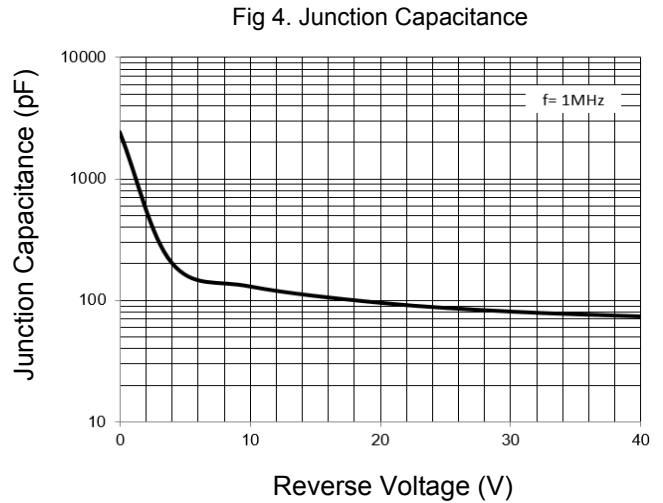
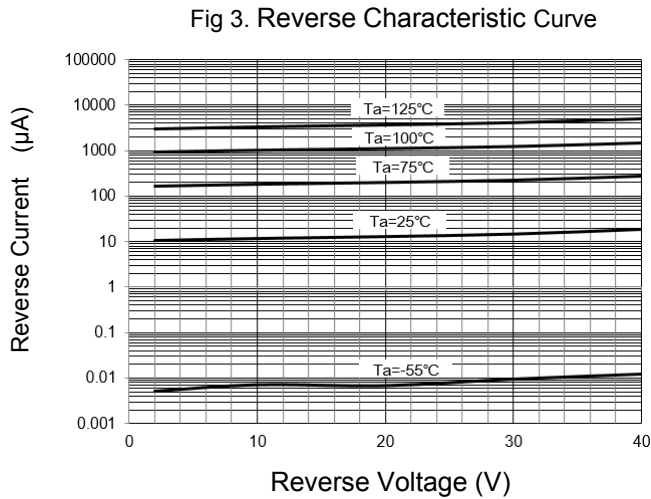
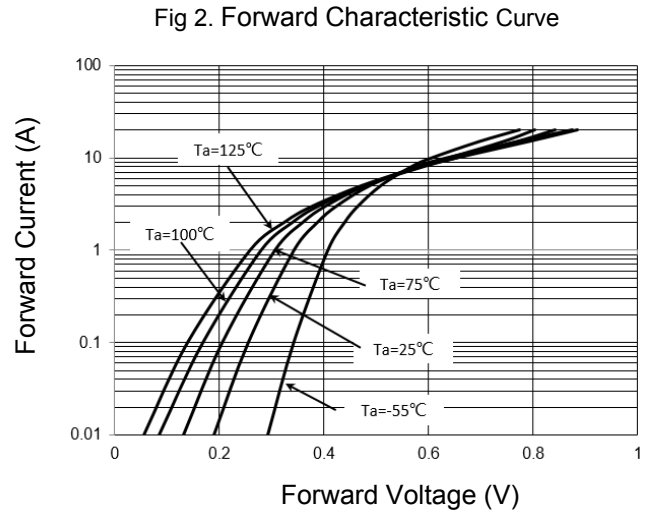
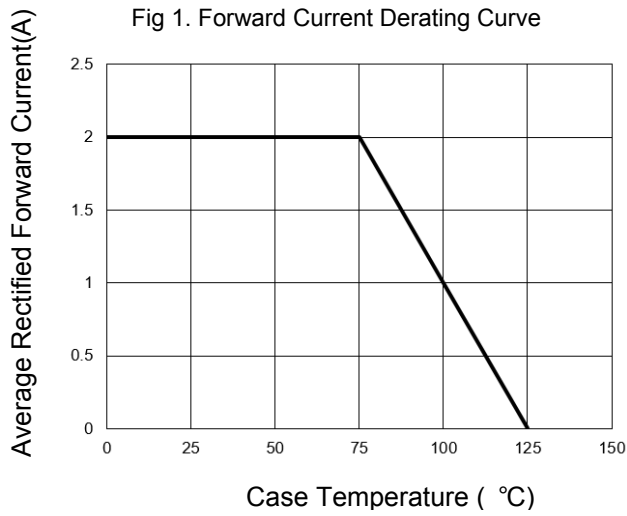
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC methode)	$I_{FSM}$	50	A
Operating Temperature Range	$T_J$	- 55 to + 125	°C
Storage Temperature Range	$T_{stg}$	- 55 to + 125	°C

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$ at $I_F = 2\text{ A}$	$V_F$	0.36 0.4	V
Reverse Current at $V_R = 40\text{ V}$	$I_R$	500	$\mu\text{A}$



## Electrical Characteristic Curve

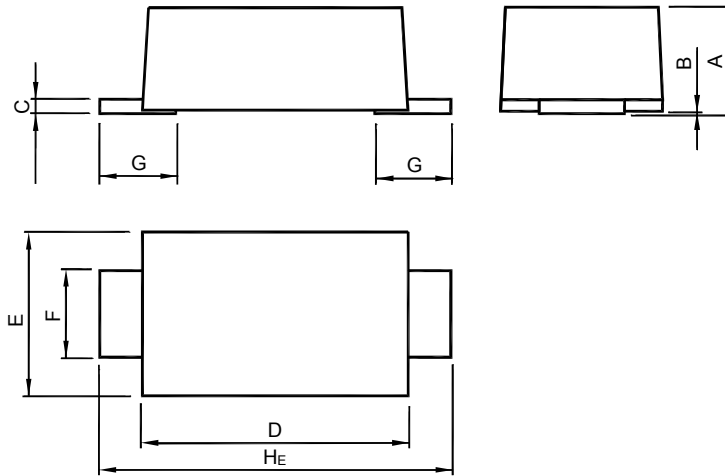


# SFW02U40S

## PACKAGE OUTLINE

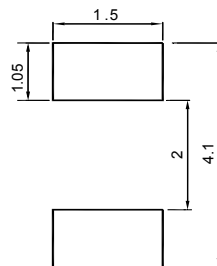
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H <sub>E</sub>
mm	1.08 0.88	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

" XS " = Part No.

Font type: Arial

