

SDB14FW-AH

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V

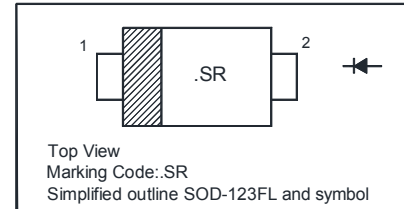
Forward Current - 1 A

Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

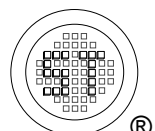


Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	Value	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum 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}	40	A
Maximum Forward Voltage at $I_F = 1$ A	V_F	0.53	V
Maximum Reverse Current at $V_R = 40$ V	I_R	30	μA
Typical Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	220	°C/W
Typical Thermal Resistance, Junction to Lead ¹⁾	$R_{\theta JL}$	50	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 40 to + 150	°C

¹⁾ Mounted on 15 mm X 50 mm pad layout.



Electrical Characteristics Curves

Fig 1. Reverse Characteristic Curve

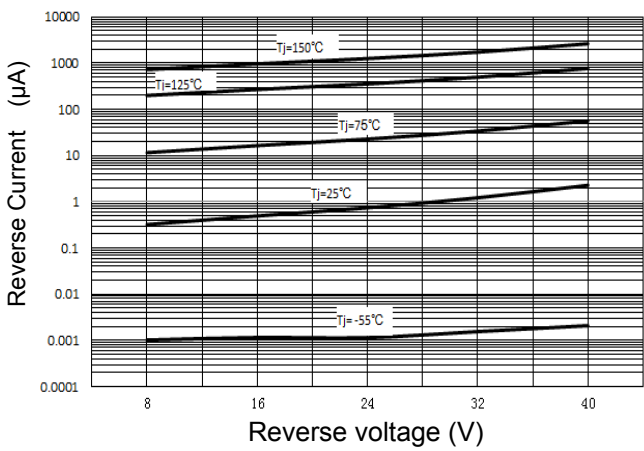


Fig 2. Forward Characteristic Curve

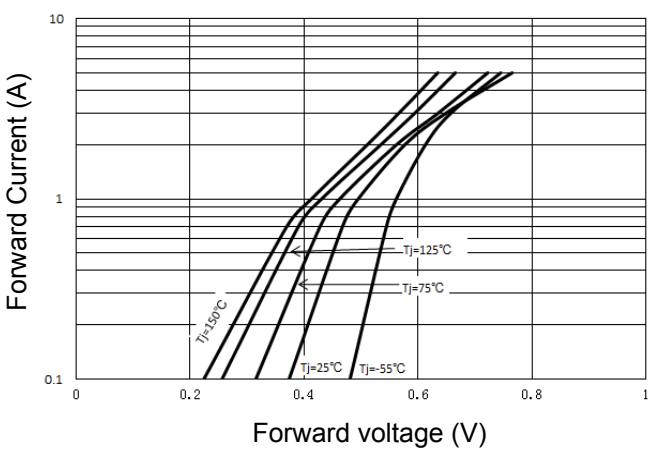
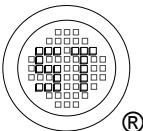
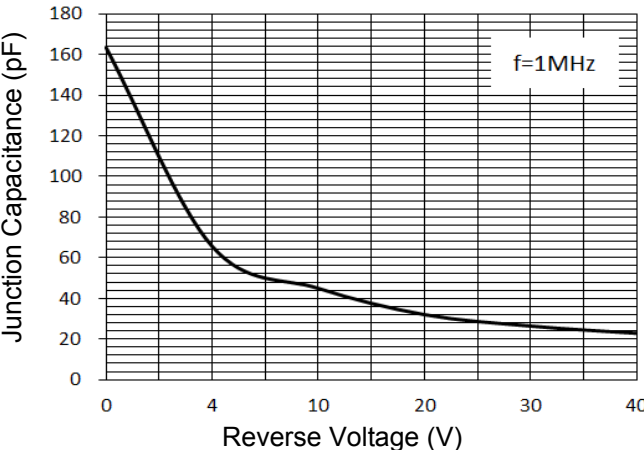


Fig 3. Junction Capacitance

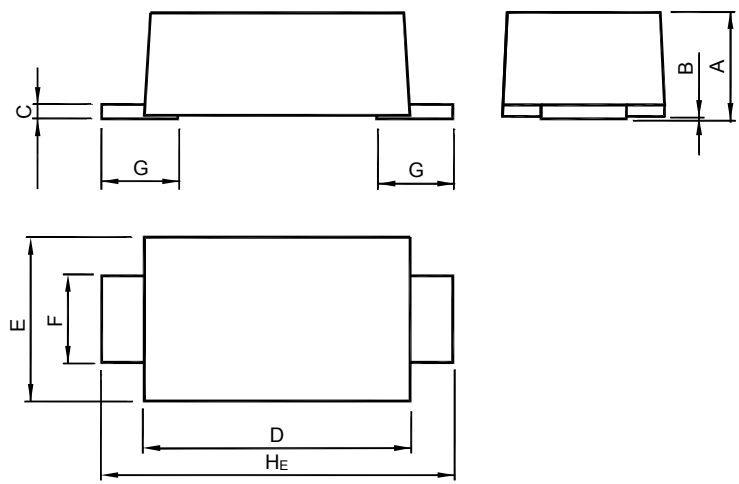


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PACKAGE OUTLINE

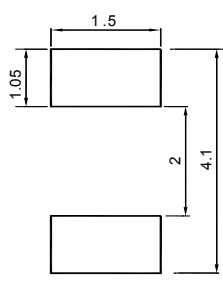
Plastic surface mounted package; 2 leads

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)
" SR " = Part No.
Font type: Arial

