

SDB16W-AH

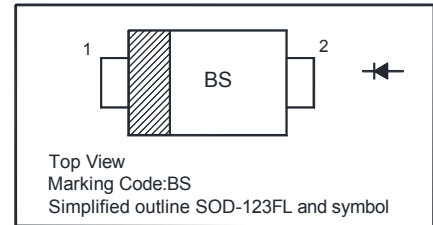
Surface Mount Schottky Barrier Rectifier

Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



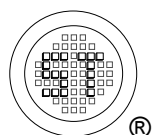
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

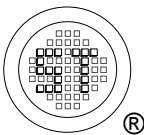
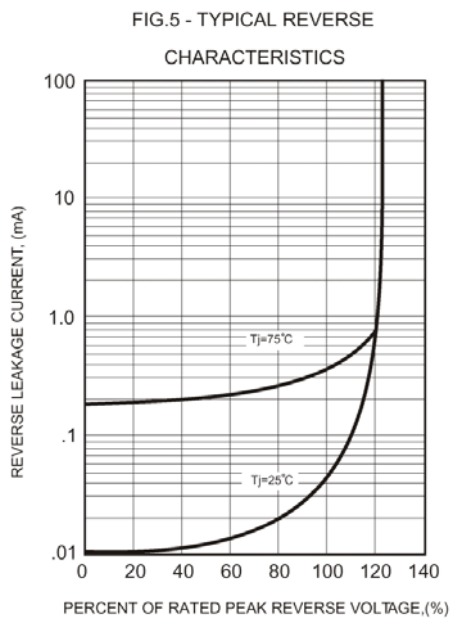
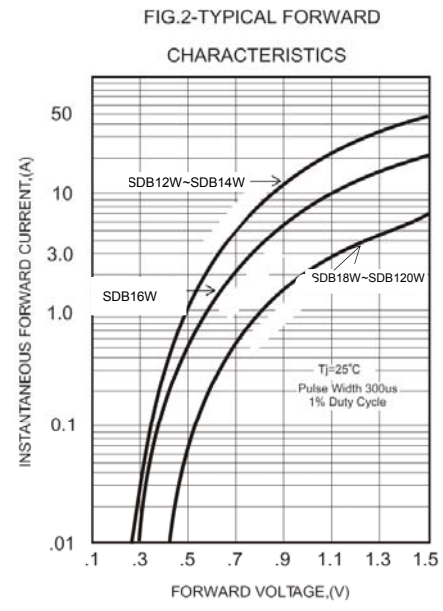
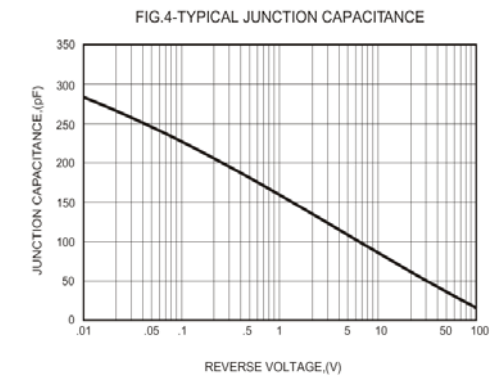
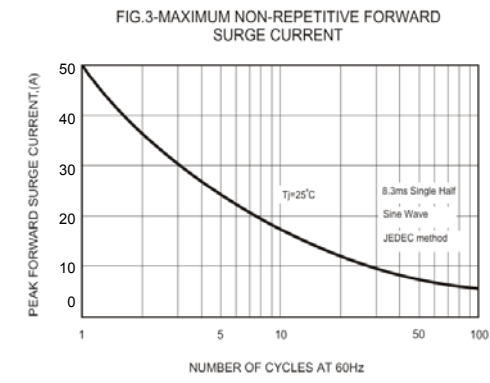
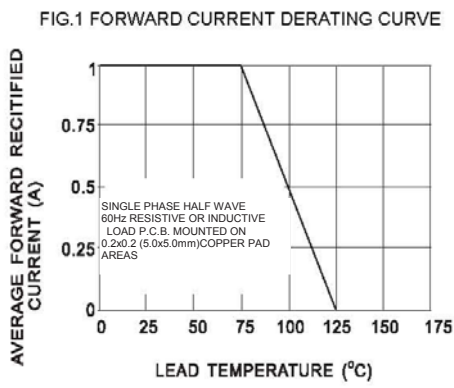
Parameter	Symbols	Value	Units
Maximum Peak Reverse Voltage	V_{RM}	60	V
Reverse Voltage	V_R	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1	A
Non-repetitive Peak Forward Surge Current (at $t = 8.3$ ms)	I_{FSM}	30	A
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	75	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

1) Thermal resistance junction to ambient 0.24" x 0.24"(6 x 6 mm) copper pads to each terminals

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1$ A	V_F	0.7	V
Reverse Current at $V_R = 60$ V at $V_R = 60$ V, $T_a = 100^\circ\text{C}$	I_R	0.1 10	mA
Junction Capacitance at $V_R = 4$ V, $f = 1$ MHz	C_J	110	pF



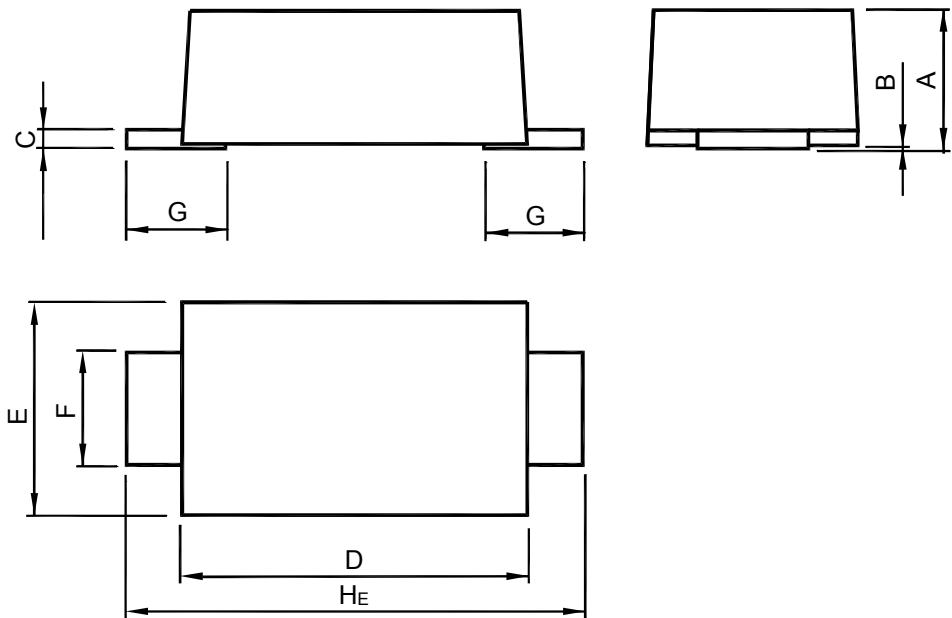


SDB16W-AH

PACKAGE OUTLINE

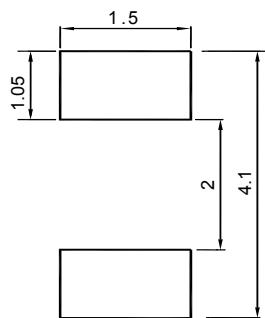
Plastic surface mounted package; 2 leads

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 2.6	1.9 1.7	1.1 0.8	0.9 0.7	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

