

SDB210LHC-AH

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 100 V

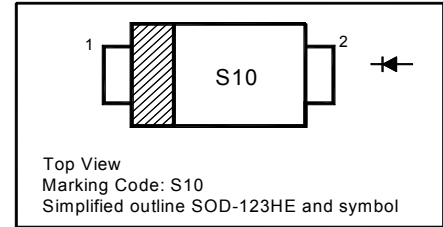
Forward Current - 2 A

Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

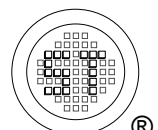


Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50	A
Maximum Instantaneous Forward Voltage at 2 A	V_F	0.8	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10 10	μA mA
Typical Thermal Resistance from Junction to Ambient ¹⁾	$R_{\theta JA}$	75	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	°C

¹⁾P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



Electrical Characteristic Curves

Fig 1. Forward Current Derating Curve

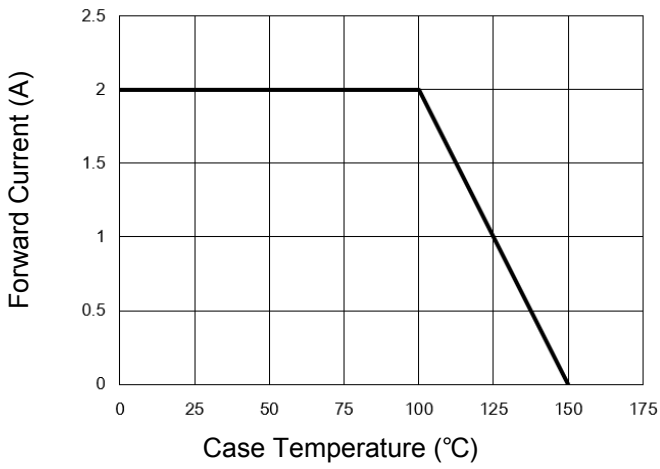


Fig 2. Forward Characteristic Curve

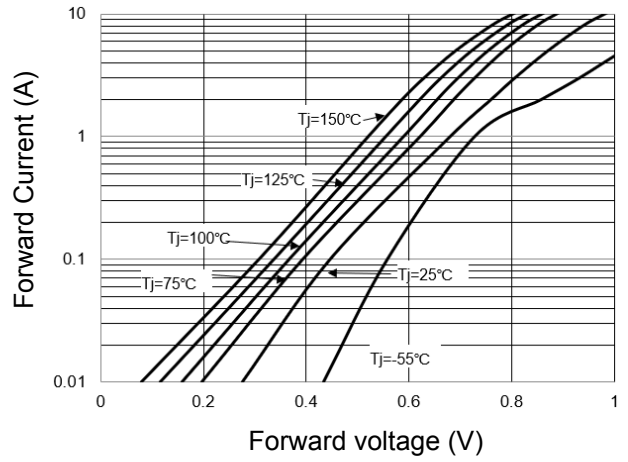


Fig 3. Reverse Characteristic Curve

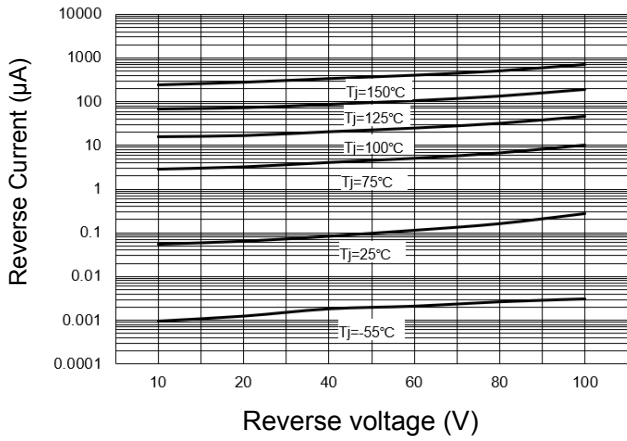


Fig 4. Junction Capacitance

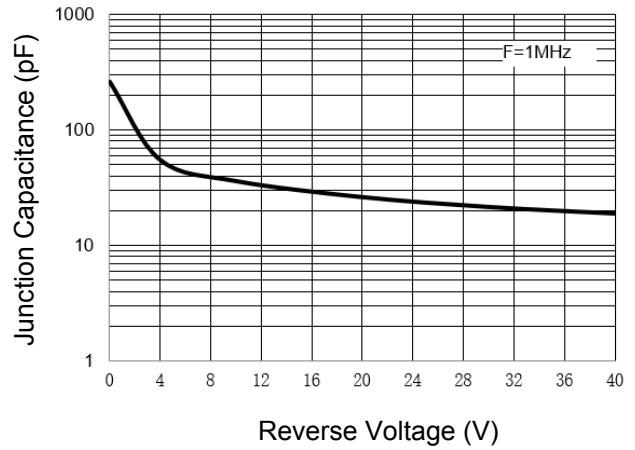
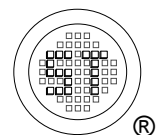
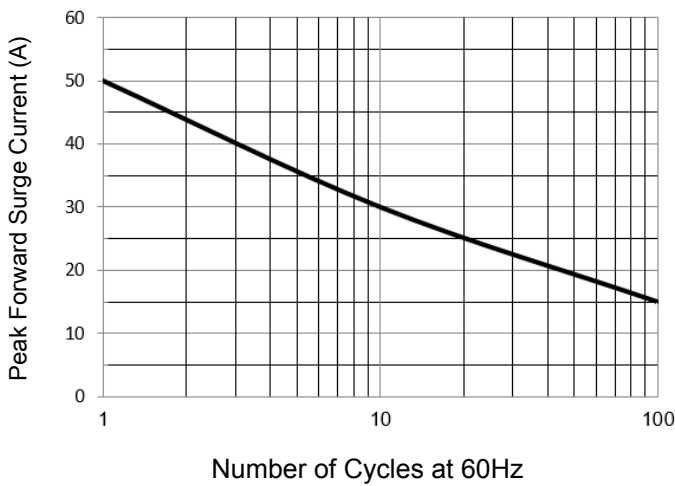


Fig 5 Maximum Non-Pegetitive Peak Forward Surge

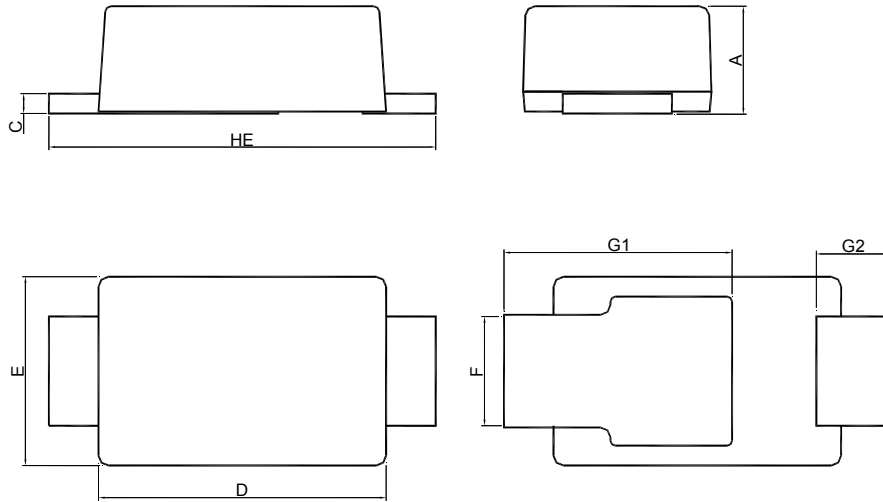


SDB210LHC-AH

PACKAGE OUTLINE

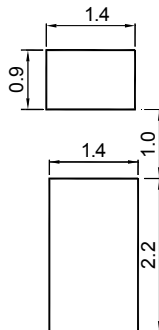
Plastic surface mounted package; 2 leads

SOD-123HE



UNIT	A	C	D	E	F	G1	G2	H _E
mm	1.08	0.2	2.9	1.9	1.1	2.3	0.75	3.9
	0.88	0.1	2.6	1.7	0.8	1.9	0.55	3.5

Recommended Soldering Footprint



Packing information

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

Marking information

" • " = HAF (Halogen and Antimony Free(HAF))

" S10 " = Part No.

" III " = Cathode line

Font type: Arial

