

SB160-40HT

Silicon Epitaxial Planar Schottky Barrier Diode

Features

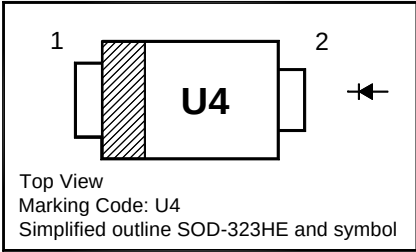
- High reliability
- Low leakage current

Application

- Small current rectification

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

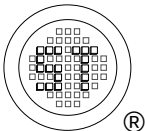


Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	40	V
Average Rectified Forward Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current (8.3 ms)	I_{FSM}	25	A
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150	$^{\circ}\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.7\text{ A}$	V_F	0.55	V
Reverse Current at $V_R = 40\text{ V}$	I_R	50	μA



Electrical characteristic curves

Fig 1. Reverse Characteristic Curve

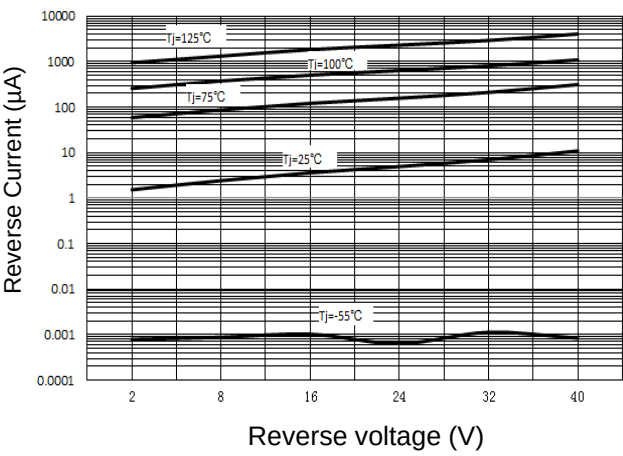


Fig 2. Forward Characteristic Curve

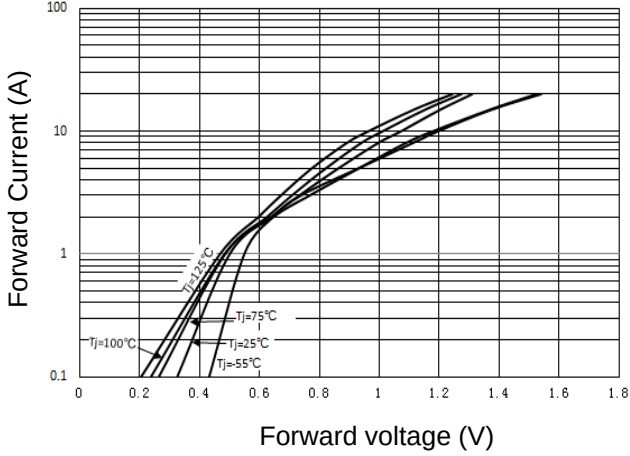


Fig 3. Junction Capacitance

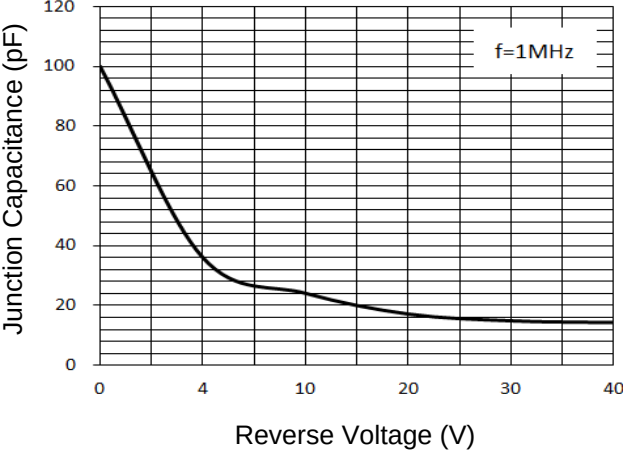
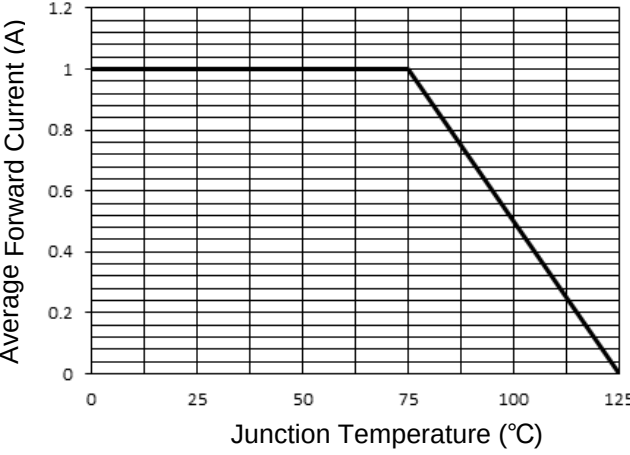


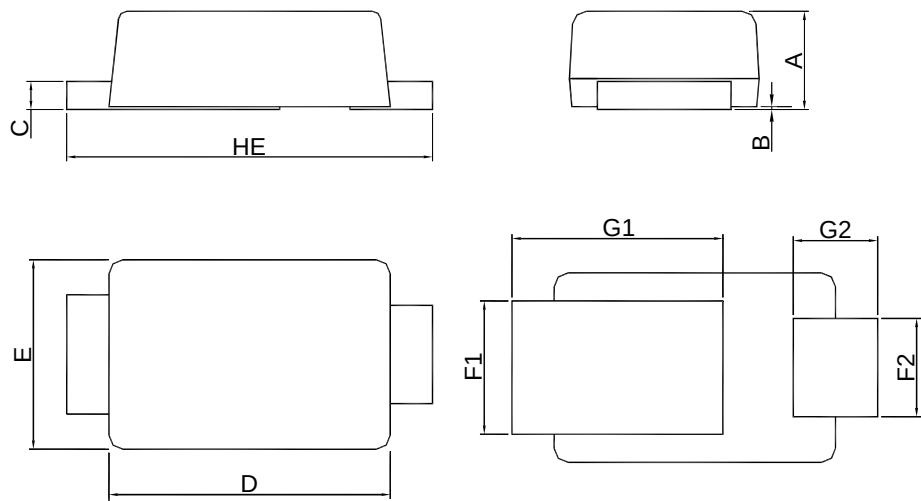
Fig 4. Forward Current Derating Curve



PACKAGE OUTLINE

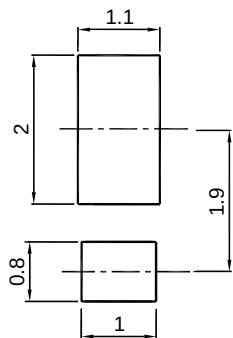
Plastic surface mounted package; 2 leads

SOD-323HE



UNIT	A	B	C	D	E	F1	F2	G1	G2	H _E
mm	0.7	0.02	0.2	2	1.35	0.95	0.7	1.5	0.6	2.6
	0.5	0	0.1	1.8	1.15	0.75	0.5	1.3	0.4	2.4

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-323HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" III " = Cathode line
 " U4 " = Part No.
 Font type: Arial

