

SB160M-40-HAF

Silicon Epitaxial Planer Schottky Barrier Diode

Features

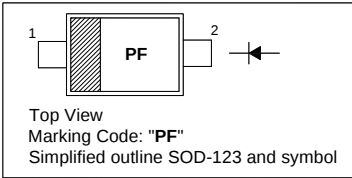
- High reliability
- Low forward voltage
- Halogen and Antimony Free(HAF), RoHS compliant

Application

- For switching power supplies
- Battery protection against reversal current

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

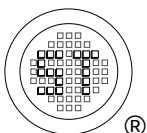


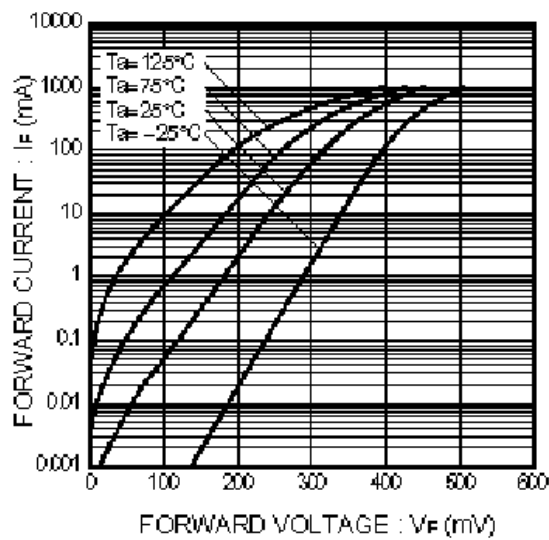
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RM}	40	V
Reverse Voltage	V _R	40	V
Average Rectified Forward Current	I _O	1	A
Peak Forward Surge Current (8.3 ms)	I _{FSM}	30	A
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 40 to + 150	°C

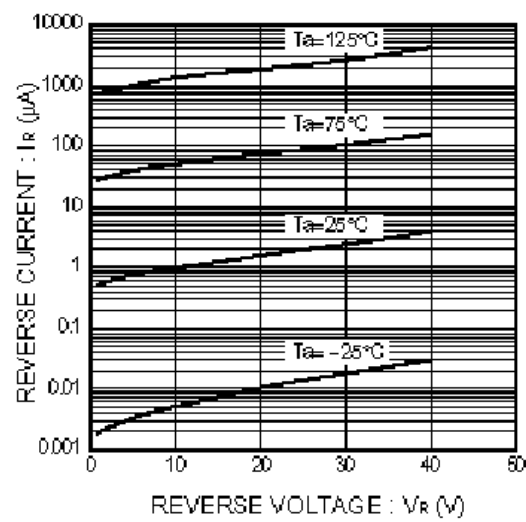
Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Forward Voltage at I _F = 1 A	V _F	0.51	V
Reverse Current at V _R = 40 V	I _R	30	μA

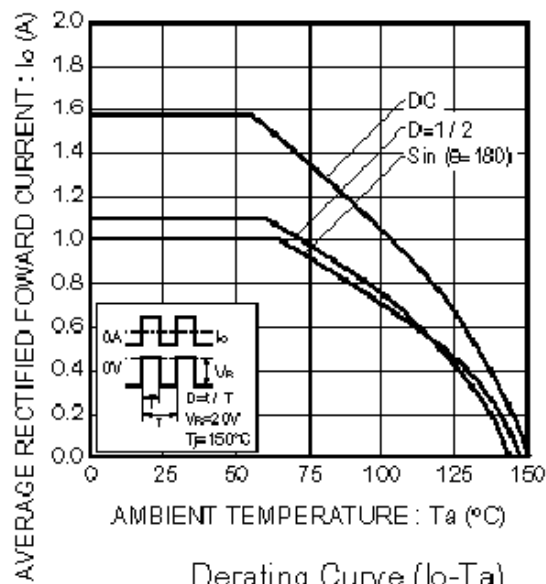




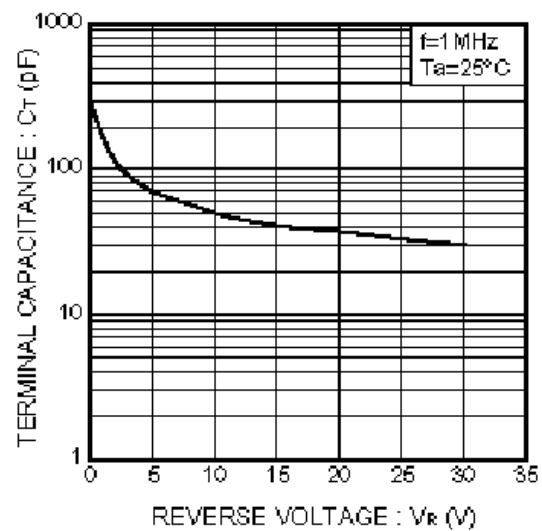
Forward Temperature Characteristics



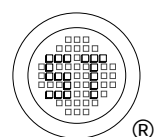
Reverse Temperature Characteristics



Derating Curve (I_o - T_a)



Capacitance Between Terminals Characteristics

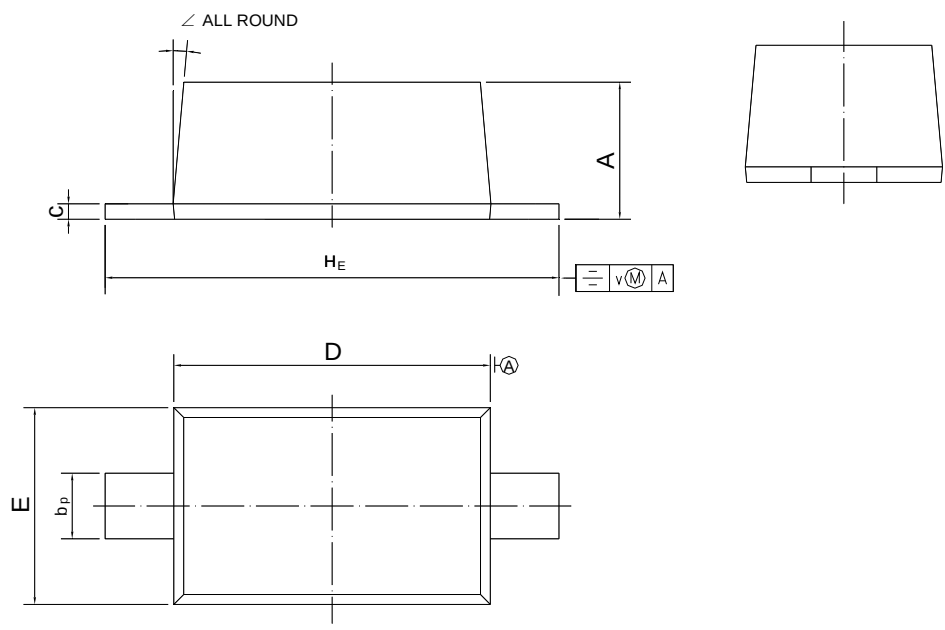


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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	b _p	c	D	E	H _E	v	∠
mm	1.15 1.05	0.6 0.5	0.135 0.100	2.7 2.6	1.65 1.55	3.85 3.55	0.2	5°

