

SB160M-40

Silicon Epitaxial Planar Schottky Barrier Diode

Features

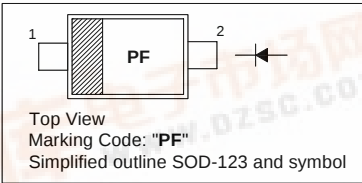
- High reliability
- Low forward voltage

Application

- For switching power supplies
- Battery protection against reversal current

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

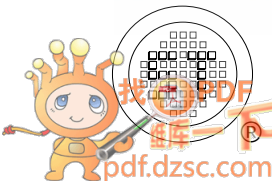


Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RM}	40	V
Reverse Voltage	V _R	40	V
Average Rectified Forward Current	I _{F(AV)}	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	Max.	Unit
Forward Voltage at I _F = 1 A	V _F	0.51	V
Reverse Current at V _R = 40 V	I _R	30	μA



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Dated : 22/04/2006

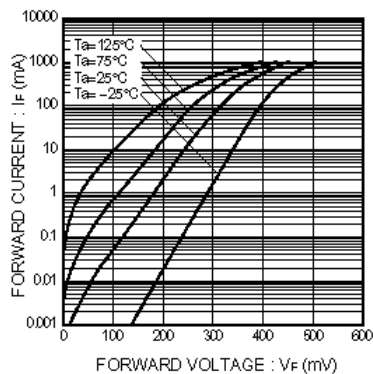


Fig. 1 Forward Temperature Characteristics

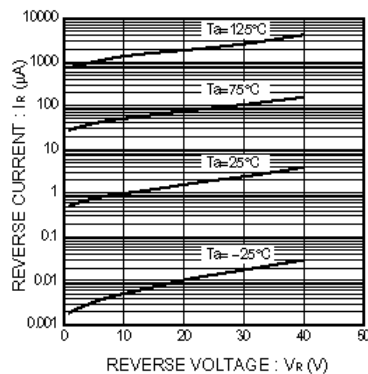


Fig. 2 Reverse Temperature Characteristics

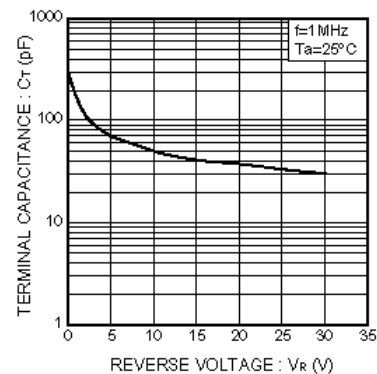


Fig. 3 Capacitance Between Terminals Characteristics

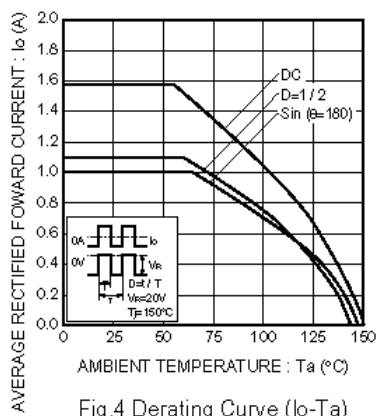


Fig. 4 Derating Curve (I_o - T_a)

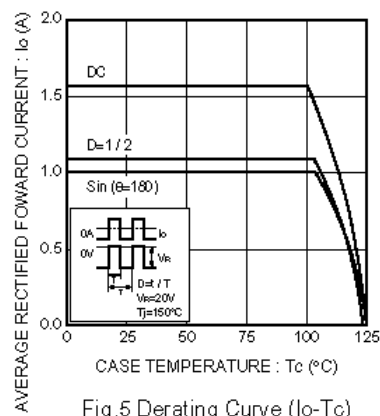


Fig. 5 Derating Curve (I_o - T_c)

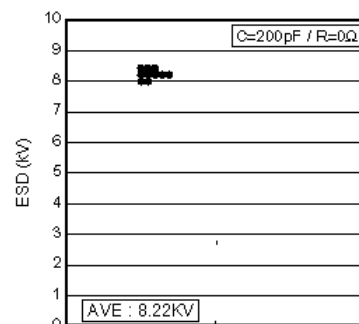
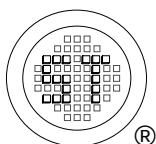


Fig. 6 ESD



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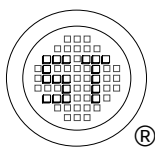
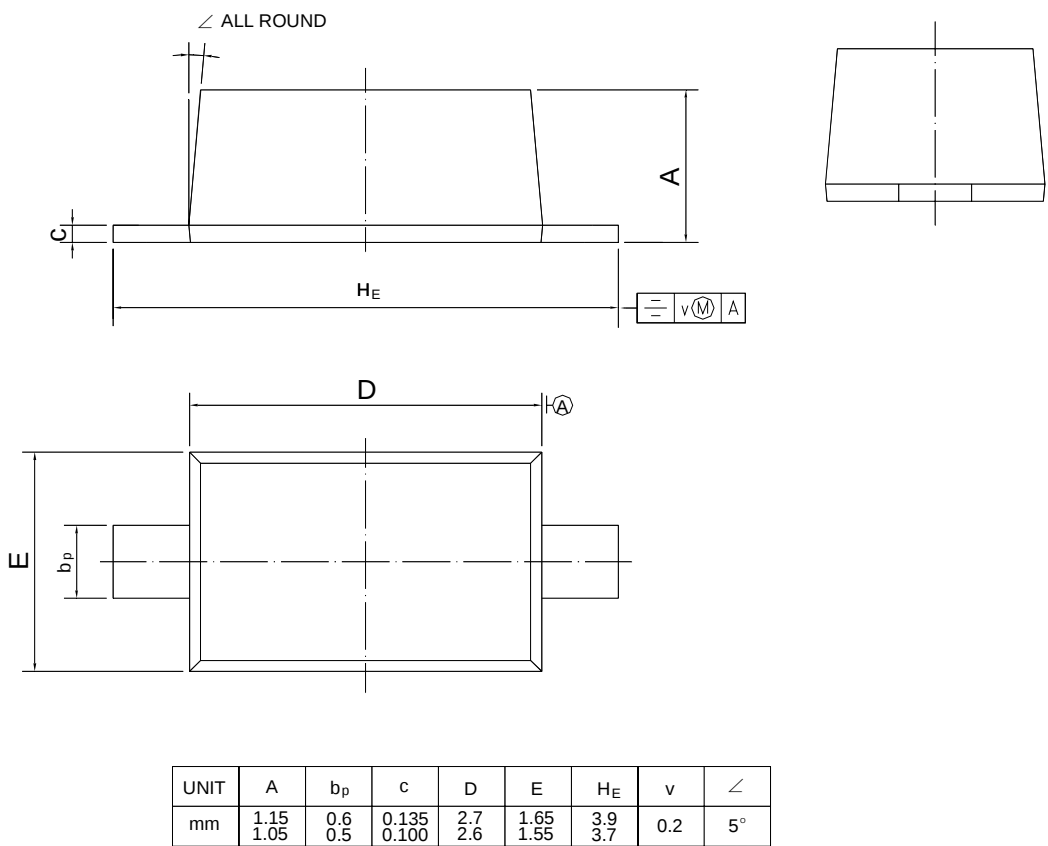


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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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