

SB160M-40

Silicon Epitaxial Planer Schottky Barrier Diode

Features

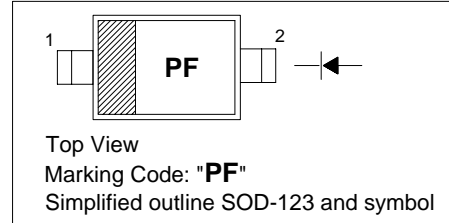
- High reliability
- Low forward voltage

Application

- For switching power supplies
- Battery protection against reversal current

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

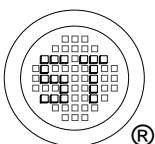


Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage (Repetitive Peak)	V _{RM}	40	V
Reverse Voltage (DC)	V _R	40	V
Average Rectified Forward Current	I _O	1	A
Peak Forward Surge Current (60Hz / cyc.)	I _{FSM}	30	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-40 to 150	°C

Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	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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ISO/TS 16949 : 2002
 Certificate No. 05103



ISO 14001:2004
 Certificate No. 71116



ISO 9001:2000
 Certificate No. 0506098

Dated : 22/04/2006

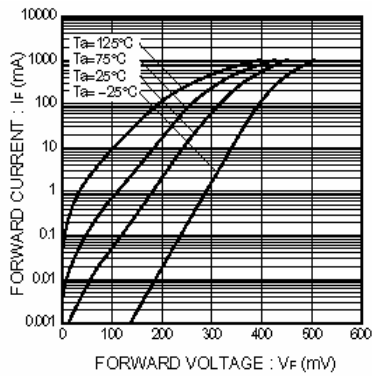


Fig.1 Forward Temperature Characteristics

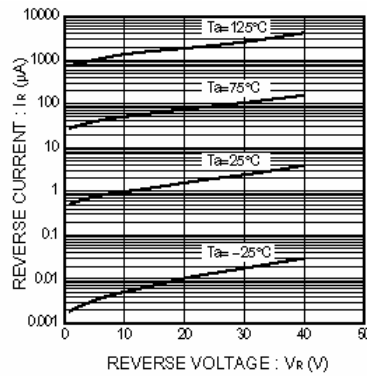


Fig.2 Reverse Temperature Characteristics

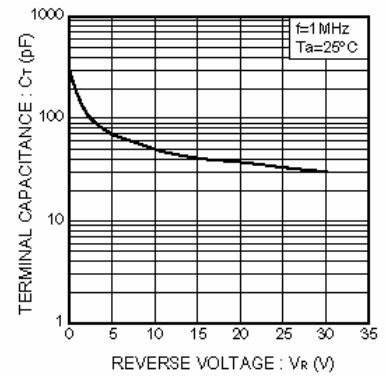


Fig.3 Capacitance Between Terminals Characteristics

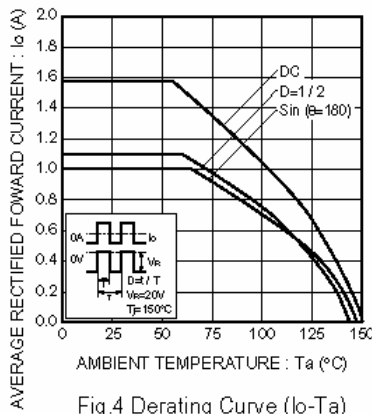


Fig.4 Derating Curve (Io-Ta)

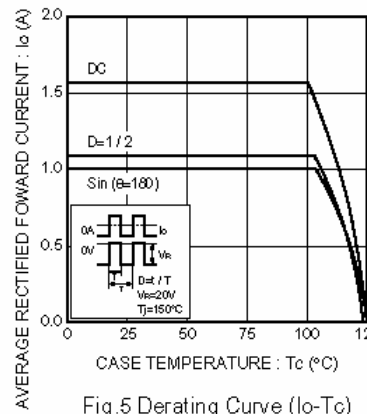


Fig.5 Derating Curve (Io-Tc)

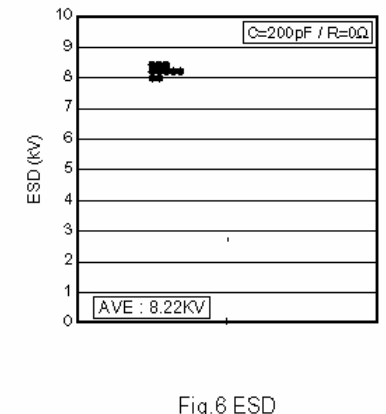
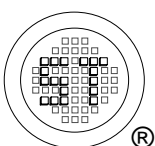


Fig.6 ESD



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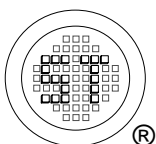
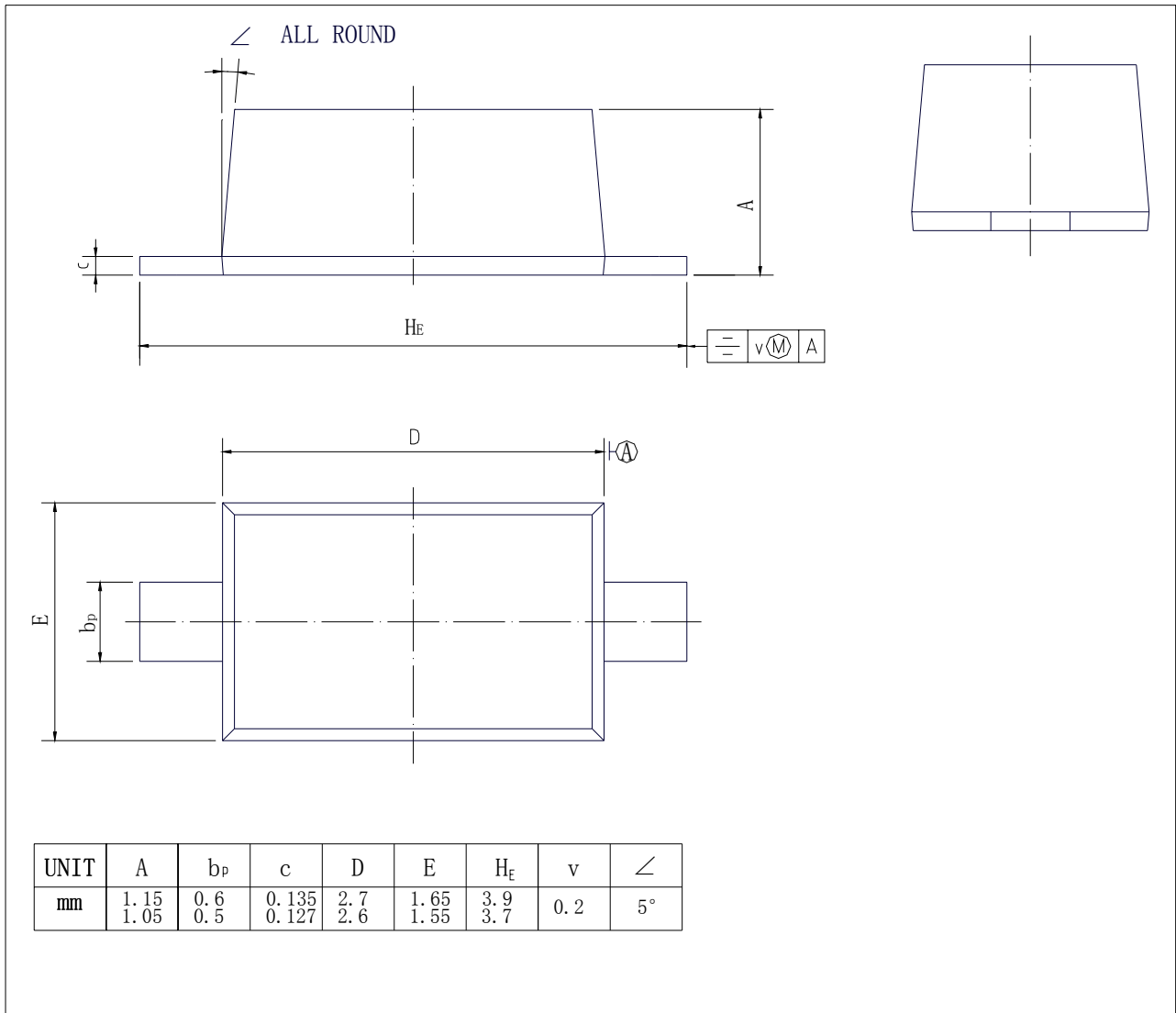


SB160M-40

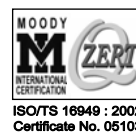
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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