BAS85W

SCHOTTKY BARRIER DIODE

Features

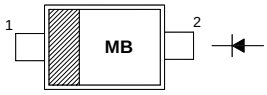
• Low forward voltage

Applications

• Voltage clamping
• Protection circuits

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**MB**"
Simplified outline SOD-123 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Peak Forward Surge Current (t_p = 10 ms)	I_{FSM}	600	mA
Power Dissipation	P_d	230	mW
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_s	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 0.1 mA at I_F = 1 mA at I_F = 10 mA at I_F = 30 mA at I_F = 100 mA	V_F	 240 320 400 500 800	mV
Reverse Current at V_R = 25 V	I_R	2.3	µA
Total Capacitance at V_R = 1 V, f = 1 MHz	C_T	10	pF

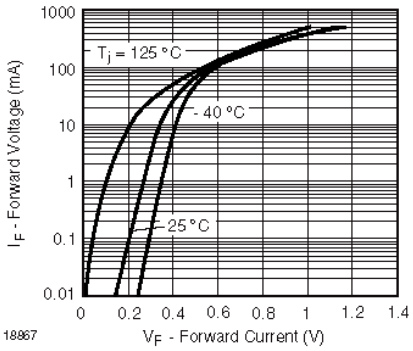


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

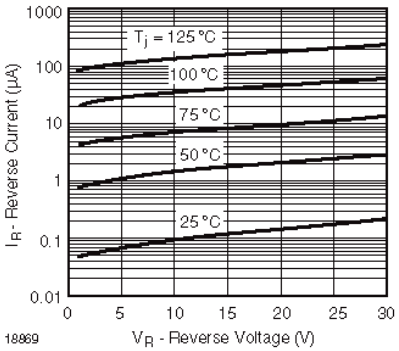


Figure 3. Typical Variation of Reverse Current at Various Temperatures

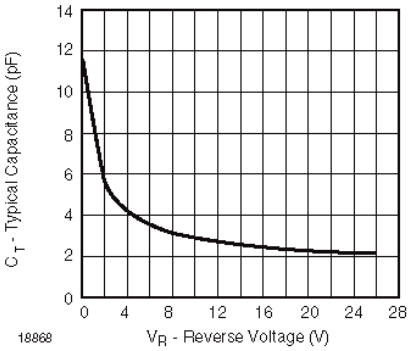
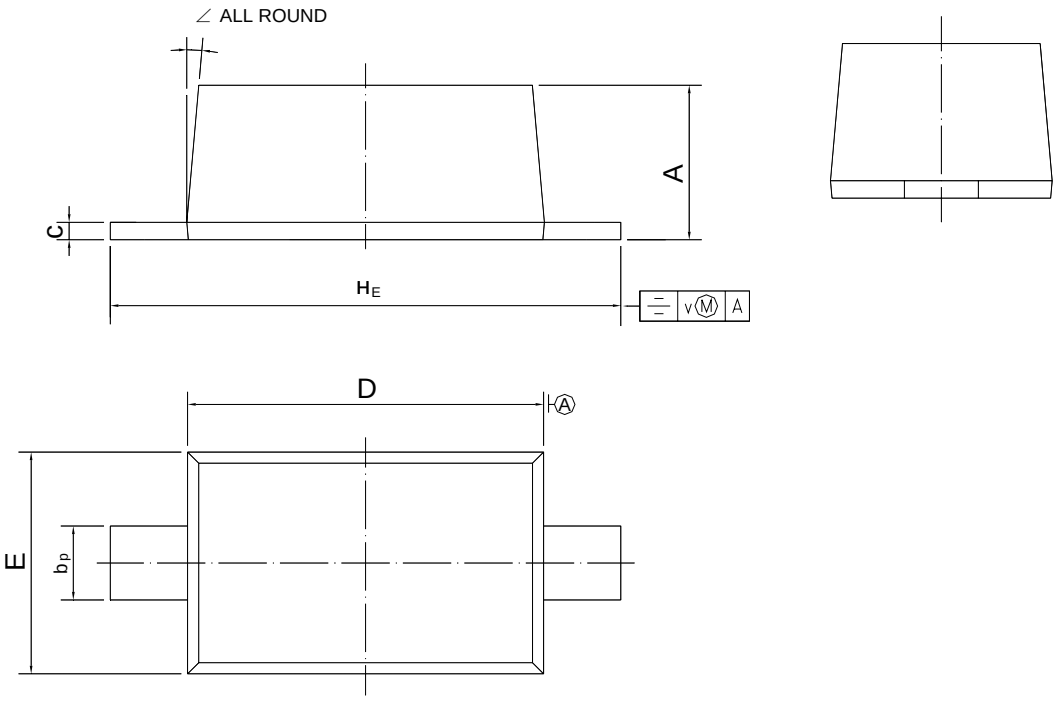


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage V_R

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 0.127	2.7 2.6	1.65 1.55	3.9 3.7	0.2	5°