

## SCHOTTKY BARRIER DIODE

### Features

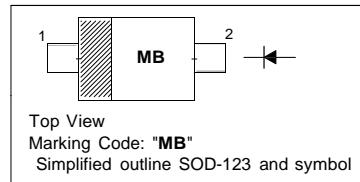
- Low forward voltage

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

### Applications

- Voltage clamping
- Protection circuits



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

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 ( $t_p = 10 \text{ ms}$ )	$I_{FSM}$	600	mA
Power Dissipation	$P_d$	230	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{Stg}$	- 65 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

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

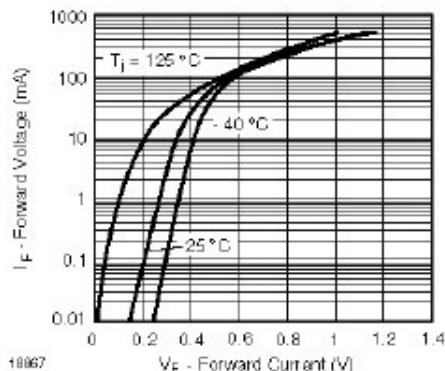


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

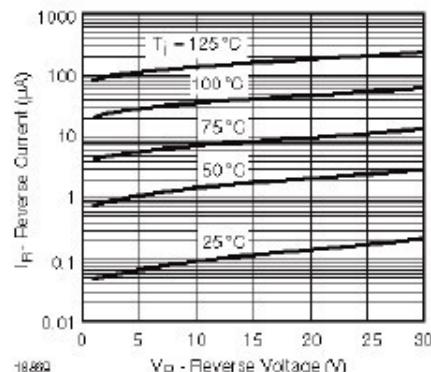


Figure 3. Typical Variation of Reverse Current at Various Temperatures

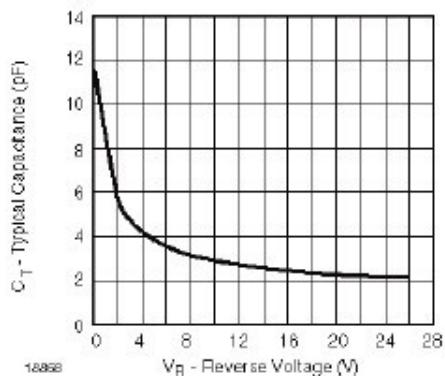


Figure 2. Typical Capacitance  $C_T$  vs. Reverse Applied Voltage  $V_R$