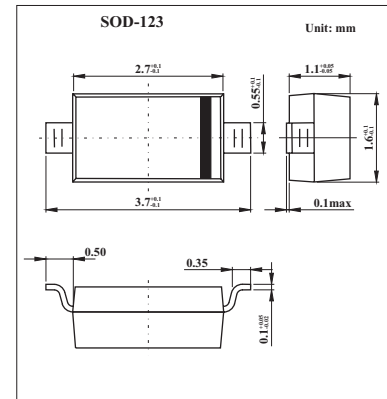


## Schottky Barrier Diode BAS85W

### ■ Features

- Low forward voltage



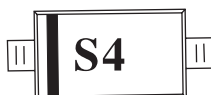
### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Reverse Voltage	$V_R$	30	V
Forward Current	$I_F$	200	mA
Repetitive Peak Forward Current	$I_{FRM}$	300	mA
Non-Repetitive Peak Forward Surge Current @ $t = 10\text{ms}$	$I_{FSM}$	600	mA
Power Dissipation	$P_D$	230	mW
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F = 0.1\text{mA}$			240	mV
		$I_F = 1\text{mA}$			320	
		$I_F = 10\text{mA}$			40	
		$I_F = 30\text{mA}$			500	
		$I_F = 100\text{mA}$			800	
Reverse Current	$I_R$	$V_R = 25\text{V}$			2.3	$\mu\text{A}$
Total Capacitance	$C_T$	$V_R = 1.0, f = 1.0\text{MHz}$			10	pF

### ■ Marking Information



# BAS85W

■ Typical Characteristic

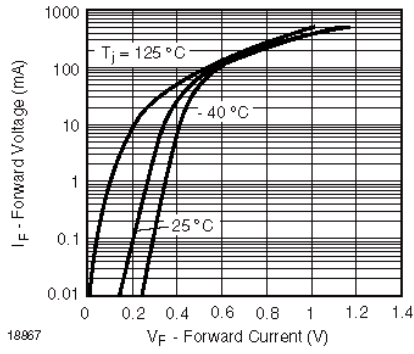


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

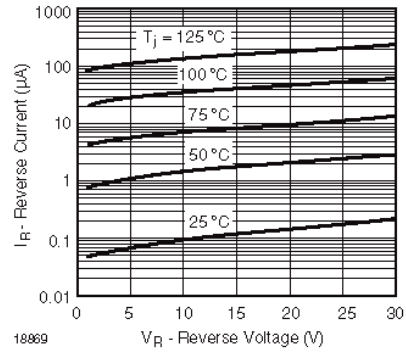


Figure 3. Typical Variation of Reverse Current at Various Temperatures

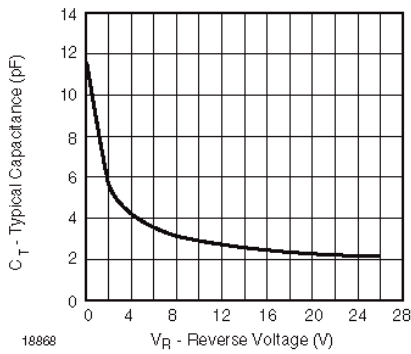


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage  $V_R$