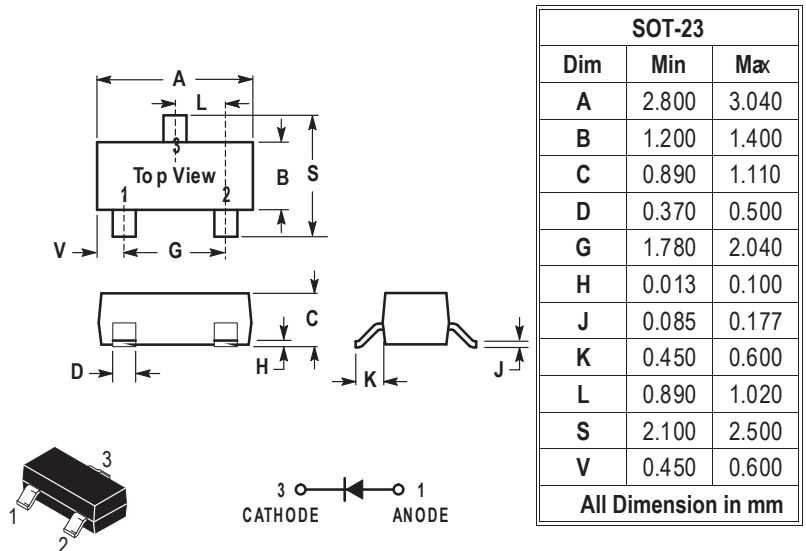


### Features

Low Turn-on Voltage  
 Low Forward Voltage-0.75V(Max) @  $I_F = 10 \text{ mA}$   
 Very Low Capacitance - Less Than 2.0pF @ 0V  
 For high speed switching application, circuit protection

### Mechanical Data

Case: Molded Plastic  
 Terminals: Solderable per MIL-STD-202, Method 208  
 Polarity: See Diagrams Below  
 Weight: 0.008 grams (approx.)  
 Mounting Position: Any



Maximum Rating S ( $T_J = 150^{\circ}\text{C}$  unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	$V_R$	70	Volts
Forward Power Dissipation @ $T_A = 25^{\circ}\text{C}$ Derate above $25^{\circ}\text{C}$	$P_F$	225 1.8	mW mW/ $^{\circ}\text{C}$
Operating Junction and Storage Temperature Range	$T_J, T_{stg}$	-55 to +150	$^{\circ}\text{C}$
DE VICE MAR KI NG			
BAS70 = BE			

ELECTRICAL CHARACTERISTICS ( $T_A = 25^{\circ}\text{C}$  unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage ( $I_R = 10 \text{ mA}$ )	$V_{(BR)R}$	70	—	Volts
Total Capacitance ( $V_R = 0 \text{ V}, f = 1.0 \text{ MHz}$ )	$C_T$	—	2.0	pF
Reverse Leakage ( $V_R = 50 \text{ V}$ ) ( $V_R = 70 \text{ V}$ )	$I_R$	—	0.1 10	mAdc
Forward Voltage ( $I_F = 1.0 \text{ mAdc}$ )	$V_F$	—	410	mVdc
Forward Voltage ( $I_F = 10 \text{ mAdc}$ )	$V_F$	—	750	mVdc
Forward Voltage ( $I_F = 15 \text{ mAdc}$ )	$V_F$	—	1.0	Vdc

## RATINGS AND CHARACTERISTIC CURVES BAS70

Figure 1. Typical Forward Voltage

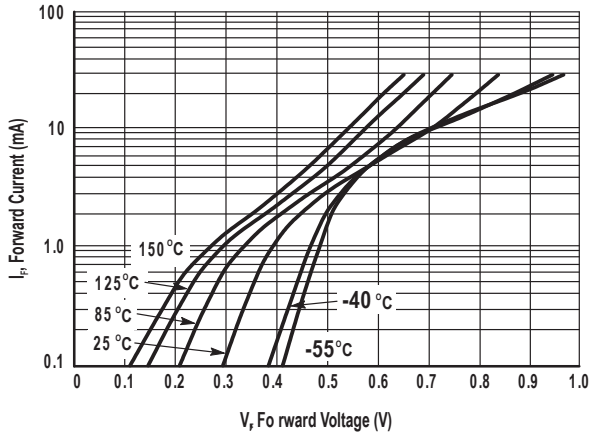


Figure 2. Reverse Current versus Reverse Voltage

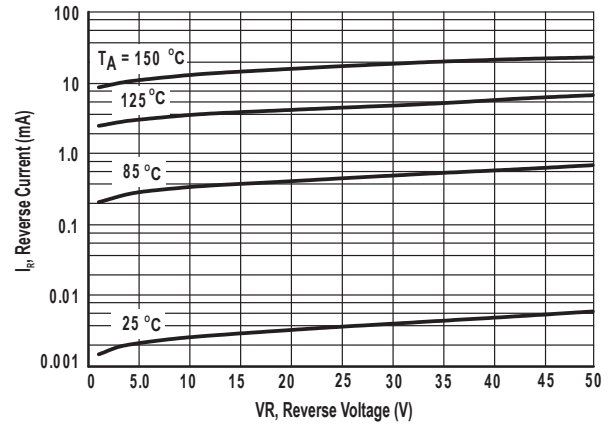


Figure 3. Typical Capacitance

