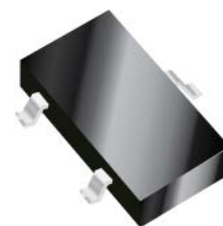
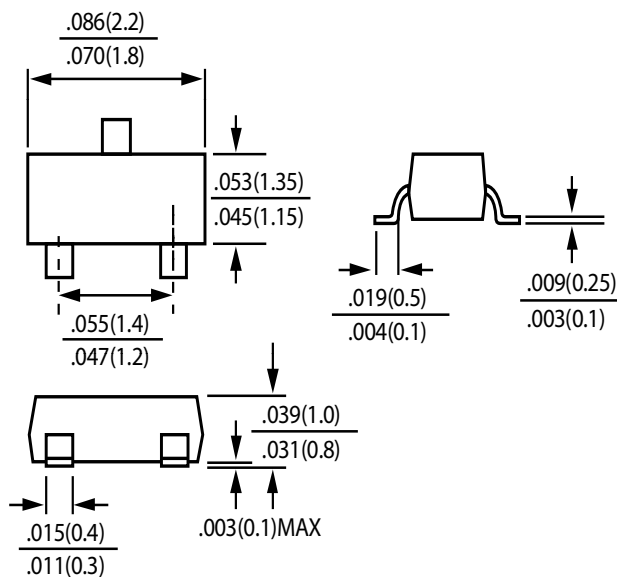
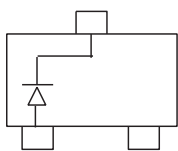


## Surface Mount Schottky Barrier Rectifiers

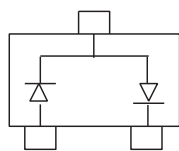


### SOT-323

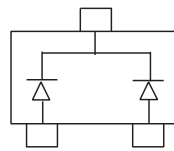
Dimensions in inches and (millimeters)



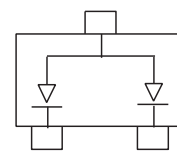
BAS70W Marking: K73, BE



BAS70-04W Marking: K74



BAS70-05W Marking: K75



BAS70-06W Marking: K76

### Features

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

### Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.004 grams (approx.)
- Mounting Position: Any

### MAXIMUM RATINGS ( $T_J = 150^\circ\text{C}$ unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	$V_R$	70	V
Single Forward Current, $t \leq 10$ ms	$I_{FSM}$	100	mA
Forward Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$	$P_F$	225 1.8	mW mW / $^\circ\text{C}$
Forward Current (DC)	$I_F$	70	mA
Junction, Storage Temperature Range	$T_J, T_{stg}$	-55 ~ 150	$^\circ\text{C}$

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

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage ( $I_R = 10$ uA)	$V_{(BR)R}$	70	—	—	Volts
Total Capacitance ( $V_R = 0$ V, $f = 1.0$ MHz)	$C_T$	—	—	2.0	pF
Reverse Leakage ( $V_R = 50$ V) ( $V_R = 70$ V)	$I_R$	—	—	0.1 10	uAdc
Forward Voltage ( $I_F = 1$ mAdc)	$V_F$	—	—	0.41	Vdc
Forward Voltage ( $I_F = 10$ mAdc)	$V_F$	—	—	0.75	Vdc
Forward Voltage ( $I_F = 15$ mAdc)	$V_F$	—	—	1.0	Vdc

## Surface Mount Schottky Barrier Rectifiers

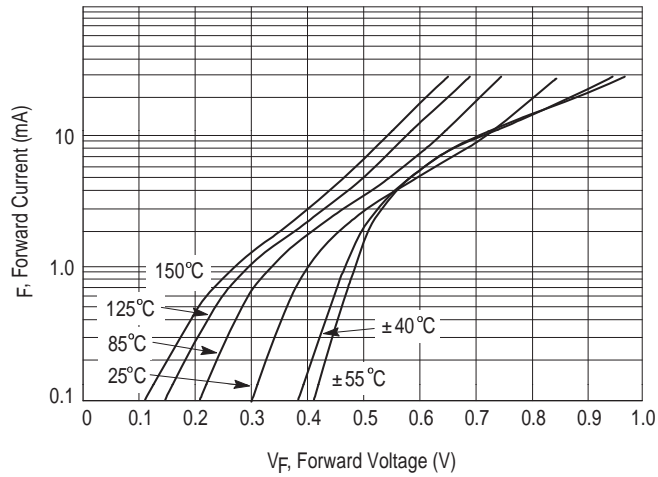


Figure 1. Typical Forward Voltage

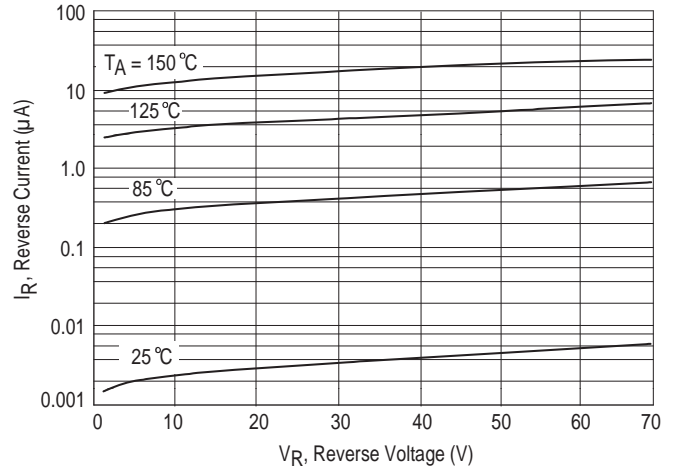


Figure 2. Reverse Current versus Reverse Voltage

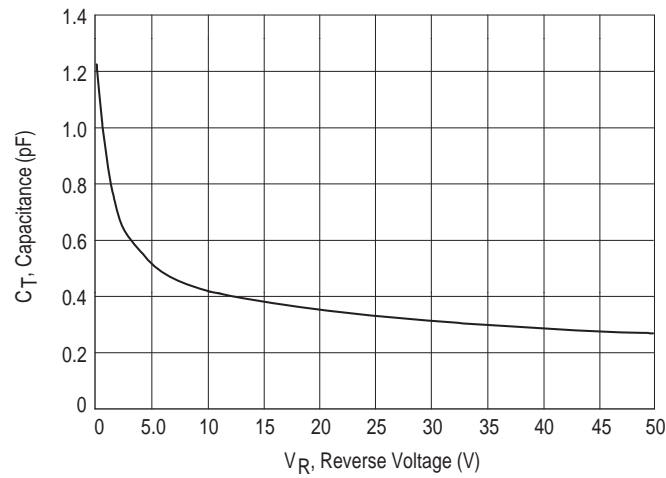


Figure 3. Typical Capacitance