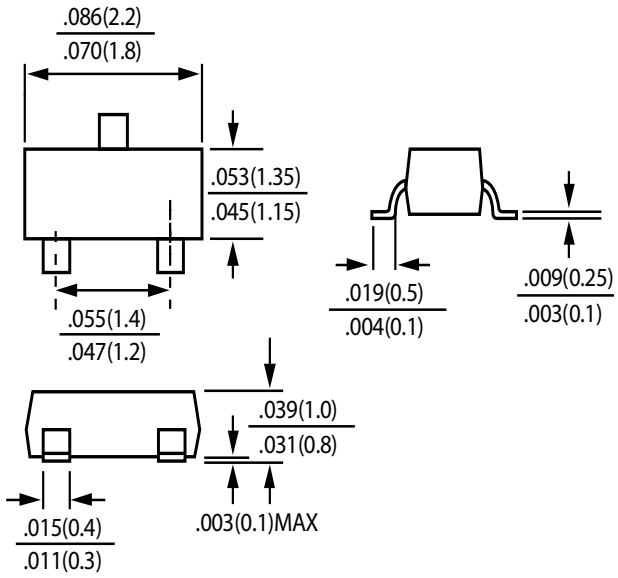
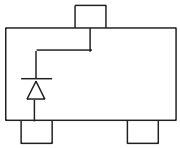
BAS70W/04W/05W/06W

Surface Mount
Schottky Barrier Rectifiers

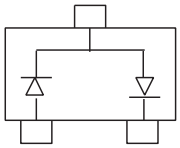


SOT-323

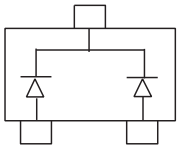
Dimensions in inches and (millimeters)



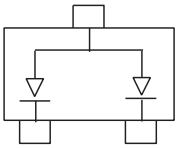
BAS70W Marking: K73, BE



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°C unless otherwise noted)			
Rating	**Symbol**	**Value**	**Unit**
Reverse Voltage	V_R	70	V
Single Forward Current, t≦10 ms	I_{FSM}	100	mA
Forward Power Dissipation@ TA = 25°C Derate above 25°C	P_F	225 1.8	mW mW / °C
Forward Current (DC)	I_F	70	mA
Junction,Storage Temperature Range	T_J,T_{stg}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted) (EACH DIODE)					
Characteristic	**Symbol**	**Min**	**Typ**	**Max**	**Unit**
Reverse Breakdown Voltage (IR = 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

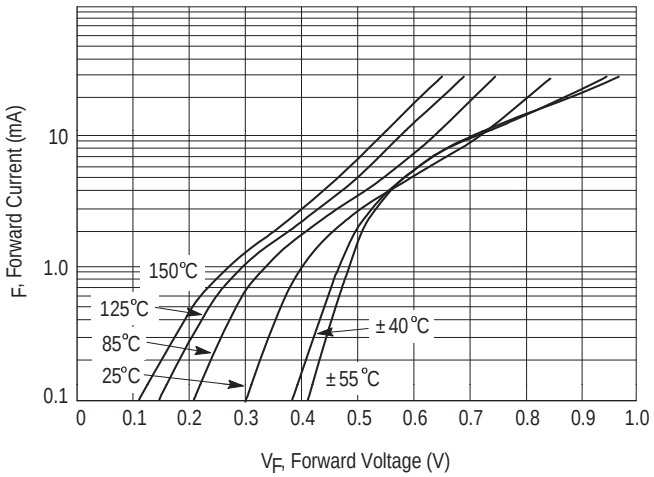


Figure 1. Typical Forward Voltage

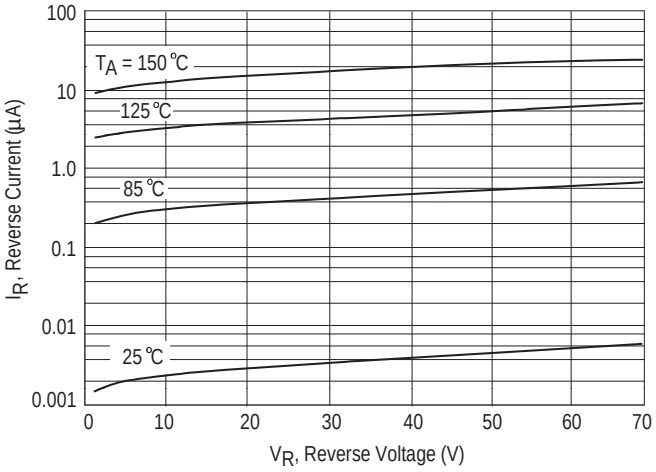


Figure 2. Reverse Current versus Reverse Voltage

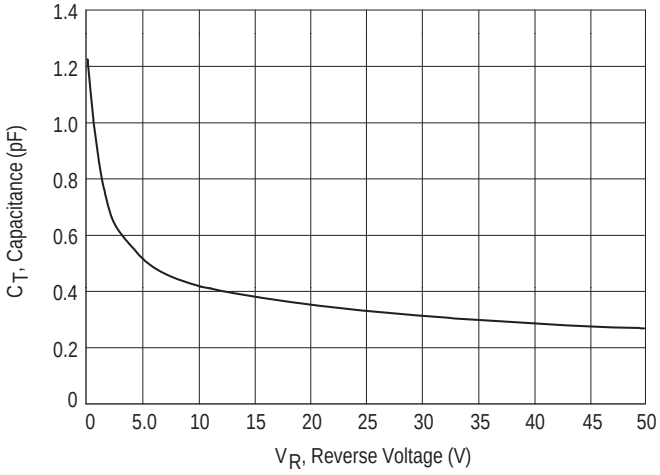


Figure 3. Typical Capacitance