Elektronische Bauelemente

BAS70W/BAS70-04W/ BAS70-05W/BAS70-06W

VOLTAGE 70 V, 70 mA

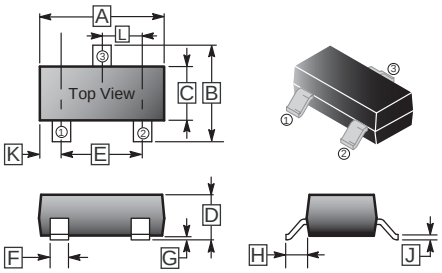
Surface Mount Schottky Barrier Diodes

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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

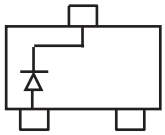
SOT-323



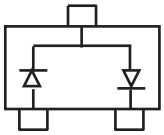
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.00	2.20	G	0.100 REF.	
B	2.15	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.15
D	0.90	1.10	K	-	-
E	1.20	1.40	L	0.525 TYP.	
F	0.20	0.40			

MECHANICAL DATA

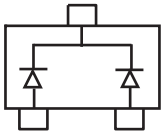
- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202,Method 208
- Polarity: See Diagrams Below
- Weight: 0.004 grams (approx.)
- Mounting Position: Any



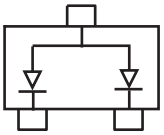
BAS70W Marking: K73, BE



BAS70-04W Marking: K74



BAS70-05W Marking: K75



BAS70-06W Marking: K76

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J = 150°C unless otherwise noted)

TYPE NUMBER		SYMBOL	VALUES	UNITS
Reverse Voltage		V_R	70	V
Forward Power Dissipation	@ T_A = 25°C	P_F	225	mW
	Derate above 25°C		1.8	mW / °C
Forward Continuous Current		I_{FM}	70	mA
Single Forward Current	t ≦ 10 m	I_{FSM}	100	
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55~150	℃

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
Reverse breakdown voltage	$V_{(BR)R}$	I_R= 10μA	70	-	V
Diode capacitance	C_T	V_R=0, f=1MHz	-	2.0	pF
Reverse voltage leakage current	I_R	V_R=50V	-	0.1	μA
		V_R=70V		10	
Forward voltage	V_F	I_F=1.0 mA	-	410	mV
		I_F=10 mA		750	
		I_F=15 mA		1000	

RATINGS AND CHARACTERISTIC CURVES

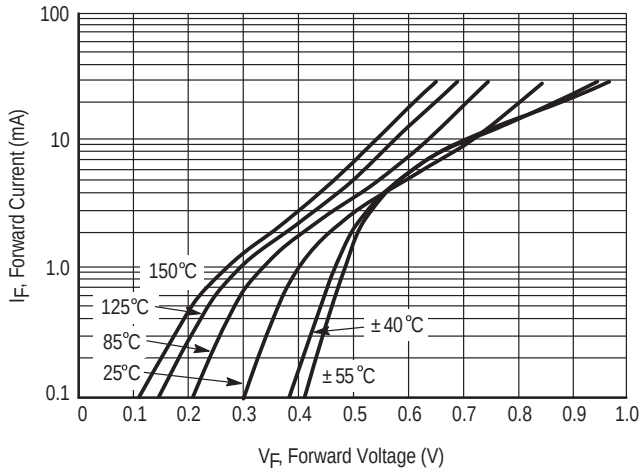


Figure 1. Typical Forward Voltage

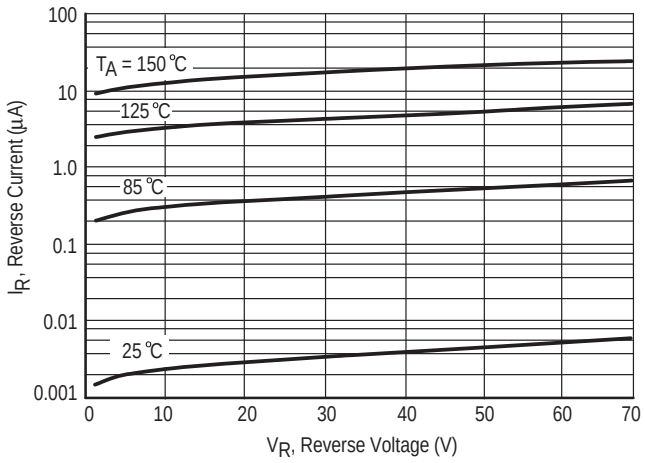


Figure 2. Reverse Current versus Reverse Voltage

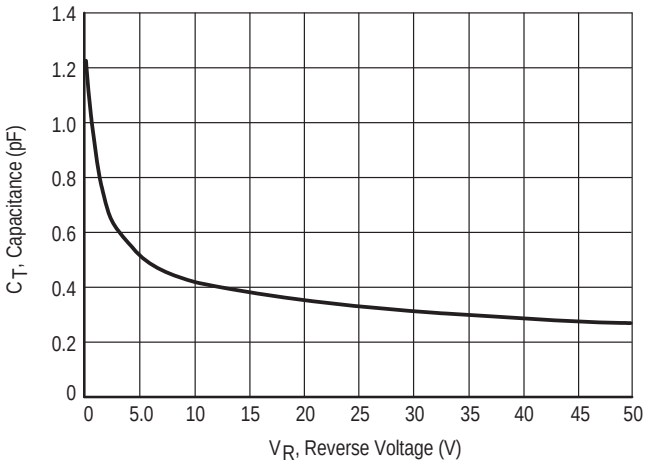


Figure 3. Typical Capacitance