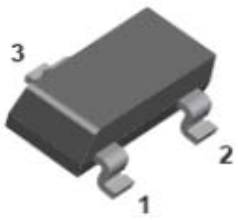
BAS70 THRU BAS70-06

Schottky Barrier Diode



BAS70 BAS70-04 BAS70-05 BAS70-06

Features

- ●Epoxy meets UL-94 V-0 flammability rating
- ●Meets MSL level 1, per J-STD-020C, LF max peak of 260 ° C
- ●Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- ● Component in accordance to RoHS 2002/95/ECand WEEE 2002/96/EC

Mechanical Data

- ● **Package**: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- ● **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

Marking:

BAS70	73
BAS70-04	74
BAS70-05	75
BAS70-06	76

■Maximum Rating, (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Value
Continuous Reverse Voltage	V_R	V	70
Forward Continuous Current	I_F	mA	70
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I_{FSM}	A	0.1
Total Power Dissipation @ T_A=25℃	P_D	mW	200
Thermal Resistance, Junction to Ambient	R_{thJA}	℃/W	500
Operation Junction Temperature	T_J	℃	-55 to +125
Storage Temperature	T_{STG}	℃	-55 to +125

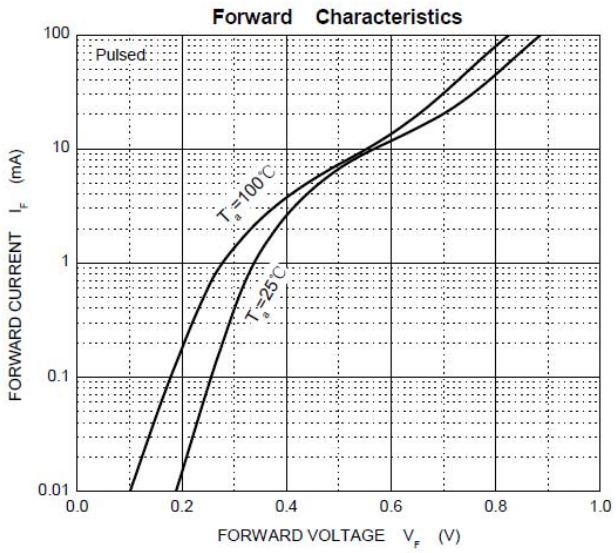
■Ordering Information (Example)

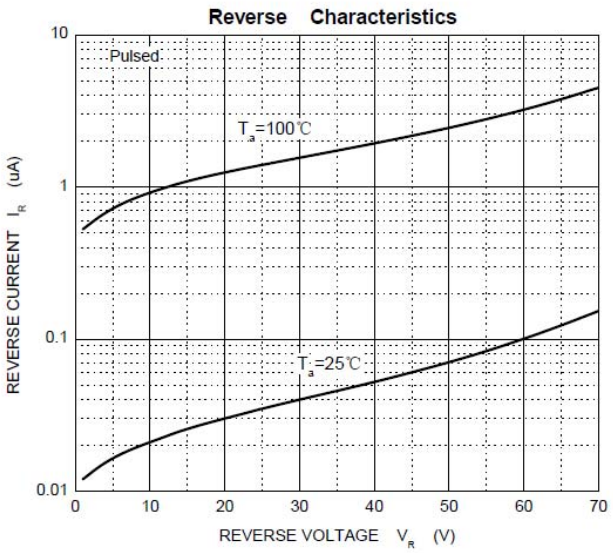
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS70	F2	Approximate 0.008	3000	30000	120000	7” reel
BAS70-04	F2	Approximate 0.008	3000	30000	120000	7” reel
BAS70-05	F2	Approximate 0.008	3000	30000	120000	7” reel
BAS70-06	F2	Approximate 0.008	3000	30000	120000	7” reel

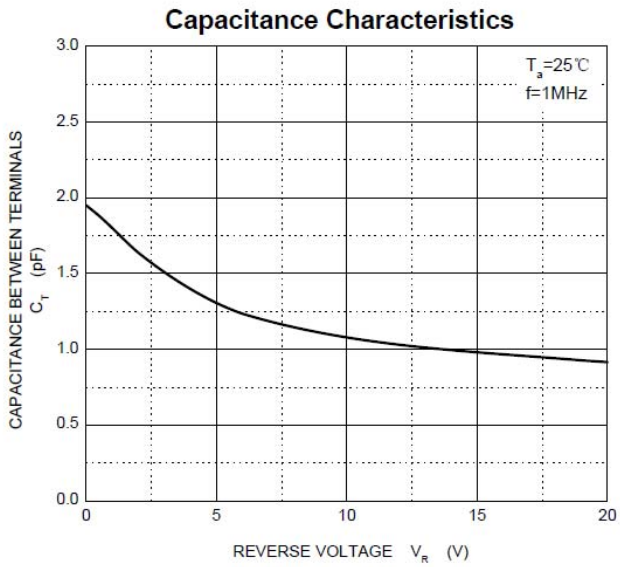
■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

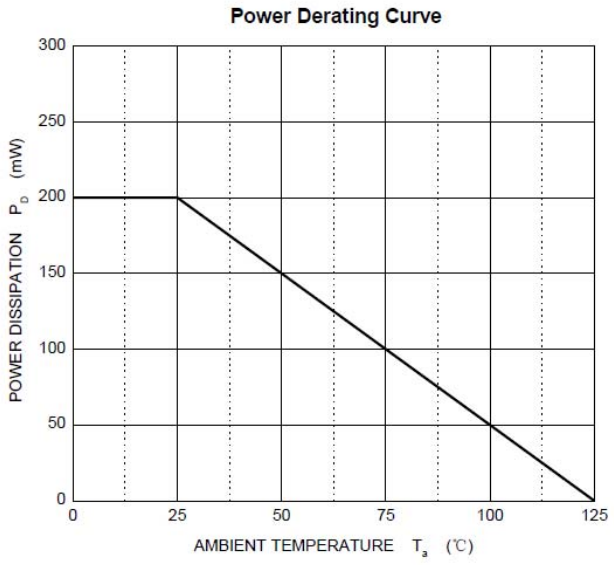
Item	Symbol	Unit	Conditions	Value
Maximum Instantaneous Forward Voltage	V_F	V	I_{FM}=1mA	0.41
			I_{FM}=15mA	1
Continuous Reverse Voltage	V_R	V	I_R=10uA	70
Maximum DC Reverse Current	I_R	uA	V_R=50V	0.2
Maximum Junction Capacitance	C_J	pF	f=1.0MHz, V_R=1.0V	2
Maximum Reverse Recovery Time	T_{rr}	ns	I_F=I_R=10mA,$I_{(REC)}$=1mA	5

■ Typical Characteristics

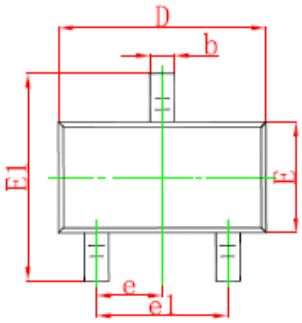


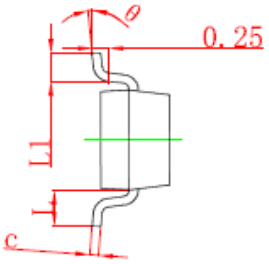


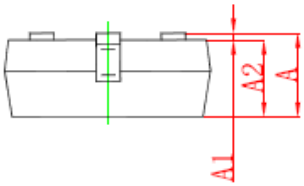




■SOT-23 Package Outline Dimensions

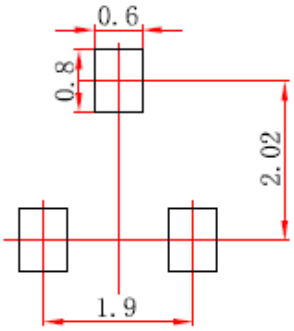






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23 Suggested Pad Layout



Note:
1.Controlling dimension:In millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

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