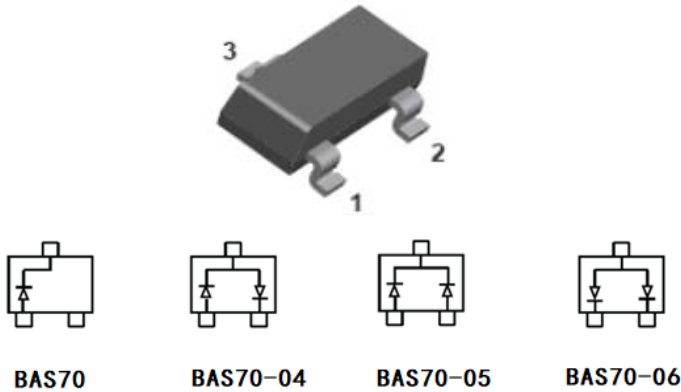


Schottky Barrier Diode



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/EC and 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°C 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°C	P _D	mW	200
Thermal Resistance, Junction to Ambient	R _{thJA}	°C/W	500
Operation Junction Temperature	T _J	°C	-55 to +125
Storage Temperature	T _{STG}	°C	-55 to +125

■ Ordering Information (Example)

PREFERRED 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

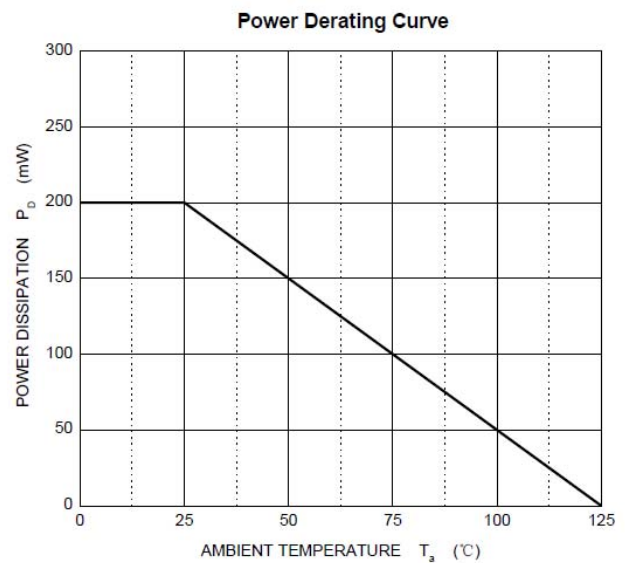
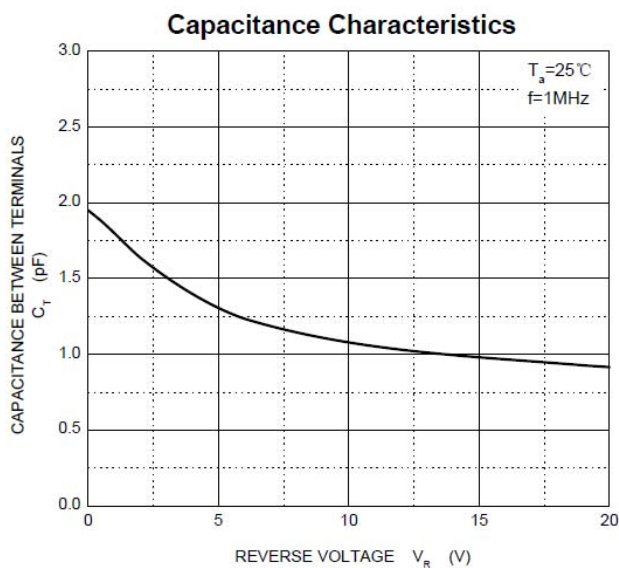
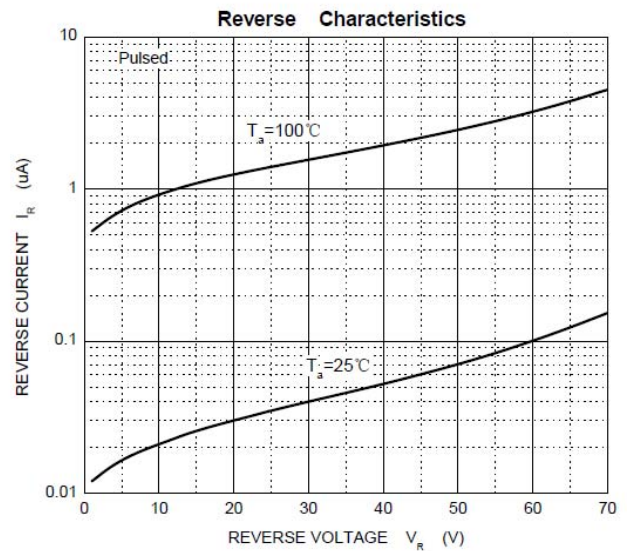
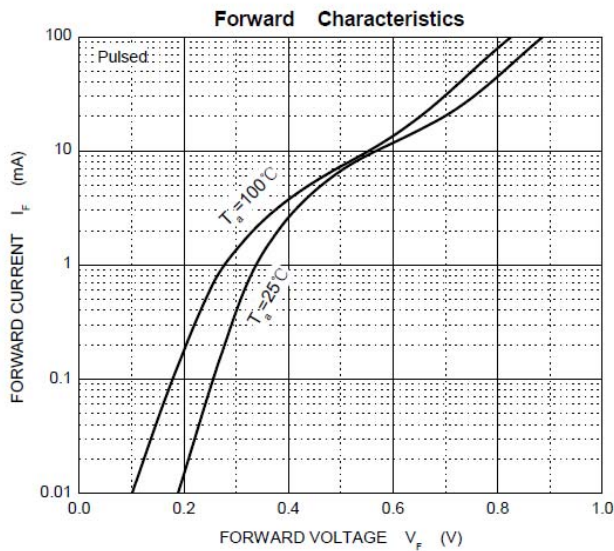


BAS70 THRU BAS70-06

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

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

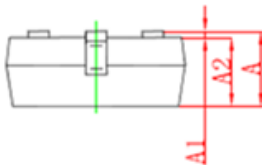
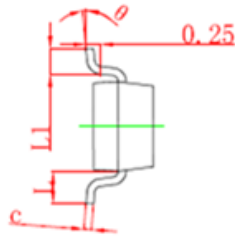
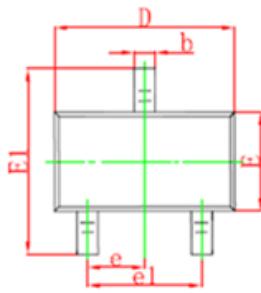
■ Typical Characteristics





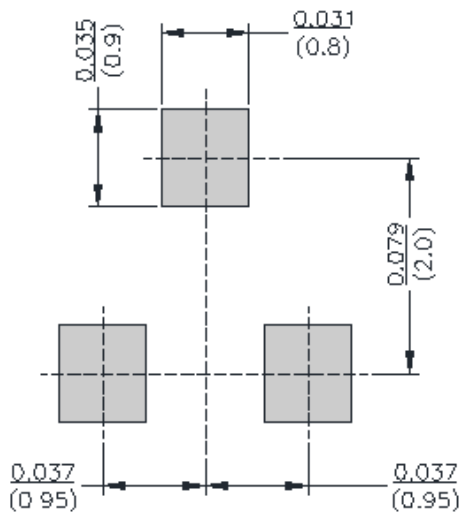
BAS70 THRU BAS70-06

■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	0.100	0.200	0.004	0.008
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	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

■SOT-23Suggested Pad Layout





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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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