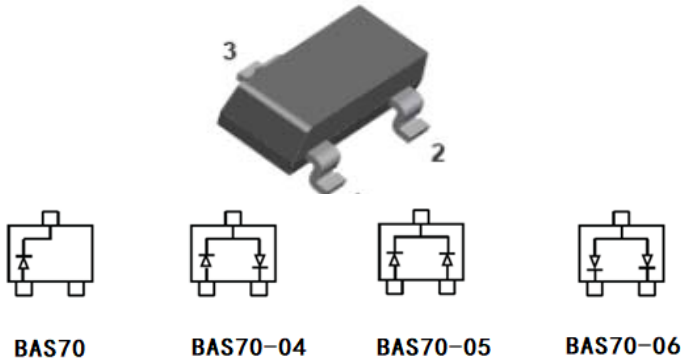


Schottky Barrier Diode



Features

- Meets MSL level 1
- 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, (Ta=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

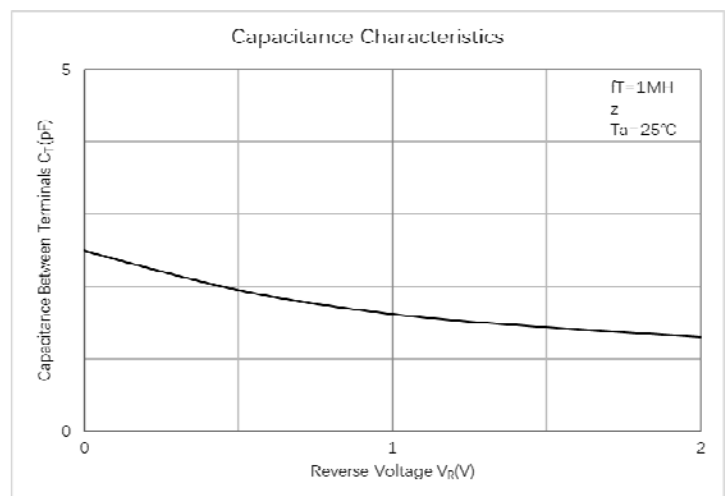
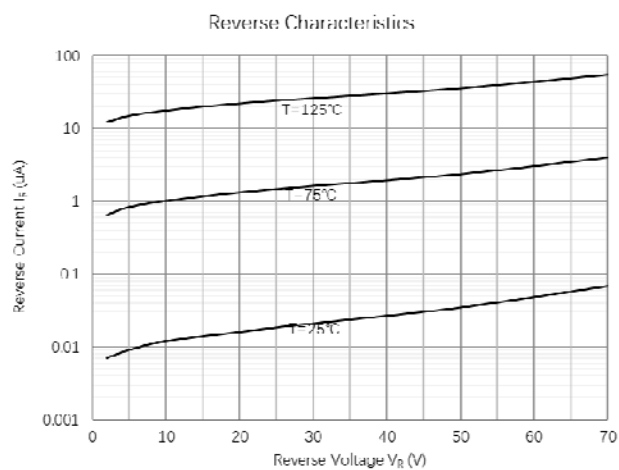
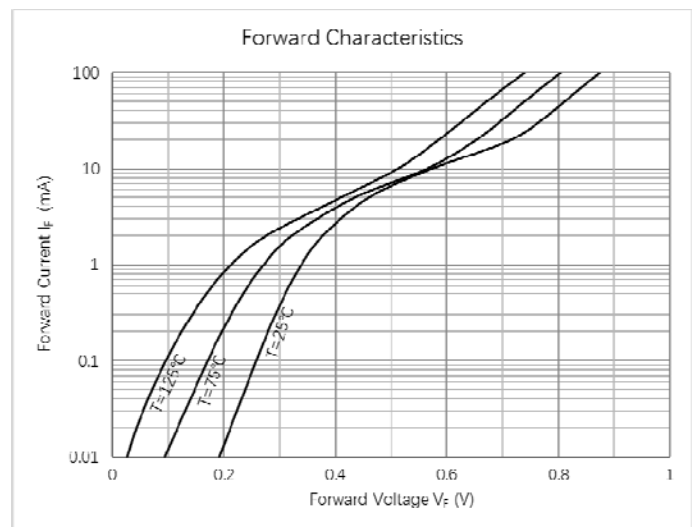
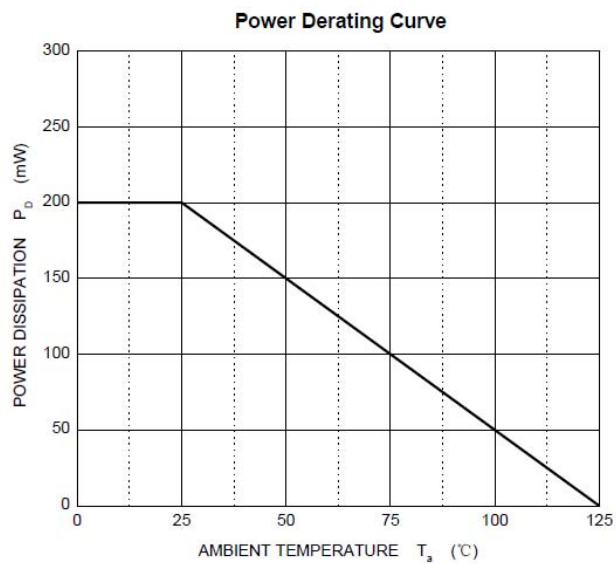


BAS70 THRU BAS70-06

■ Electrical Characteristics (Ta=25°C 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	μA	$V_R=50V$	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

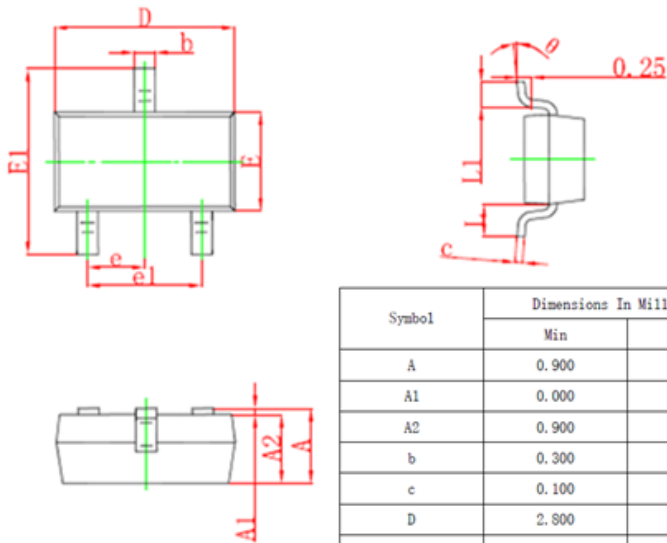
■ Typical Characteristics





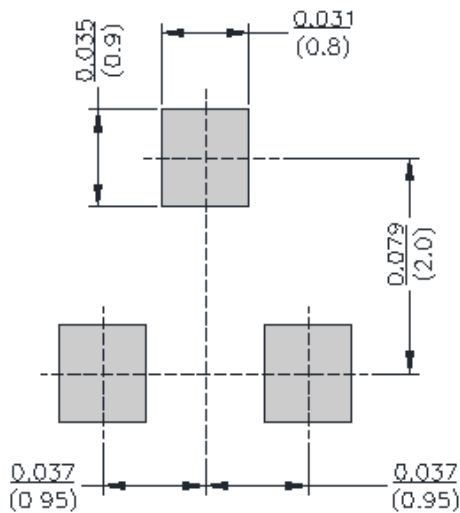
BAS70 THRU BAS70-06

■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





BAS70 THRU BAS70-06

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