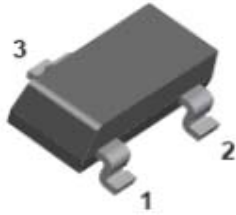


## Schottky Barrier Diode



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/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<sub>a</sub>=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Continuous Reverse Voltage	V <sub>R</sub>	V	70
Forward Continuous Current	I <sub>F</sub>	mA	70
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I <sub>FSM</sub>	A	0.1
Total Power Dissipation @ T <sub>A</sub> =25°C	P <sub>D</sub>	mW	200
Thermal Resistance, Junction to Ambient	R <sub>thJA</sub>	°C/W	500
Operation Junction Temperature	T <sub>J</sub>	°C	-55 to +125
Storage Temperature	T <sub>STG</sub>	°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

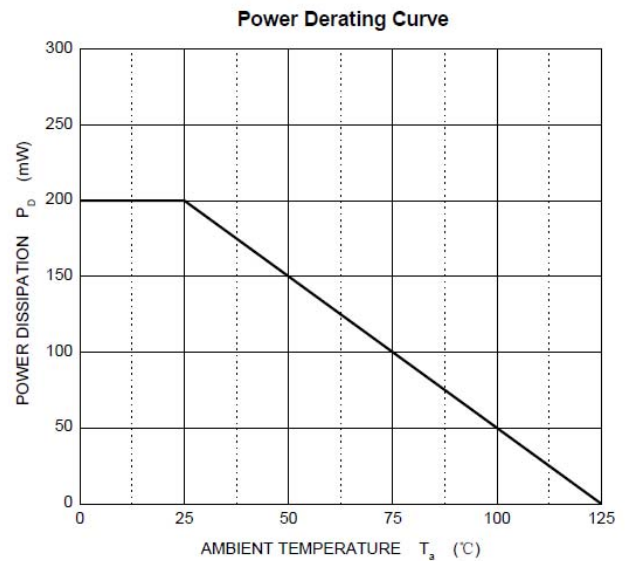
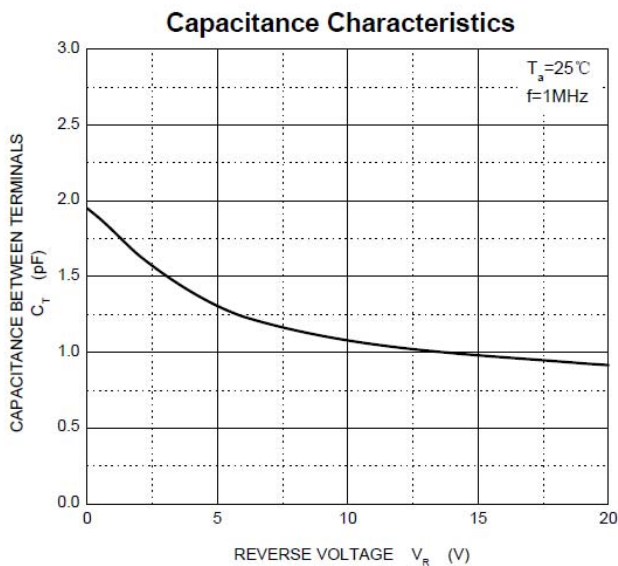
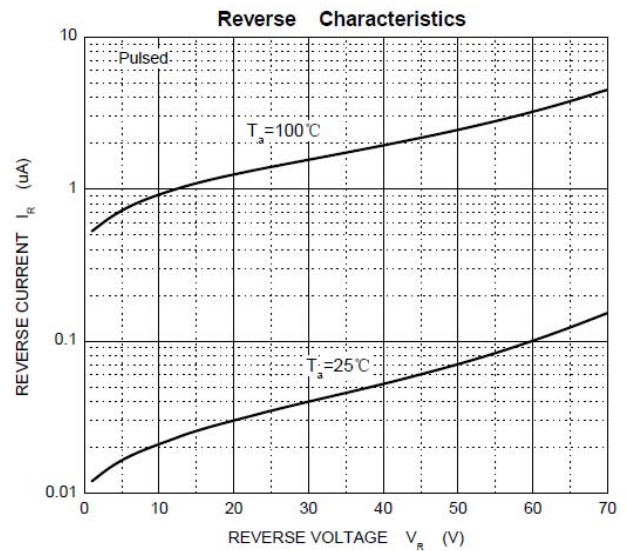
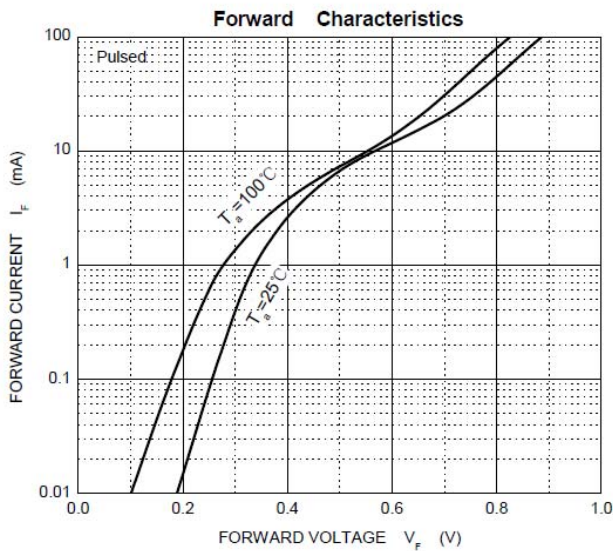


# BAS70 THRU BAS70-06

## ■ 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	$I_R$	$\mu\text{A}$	$V_R=50\text{V}$	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

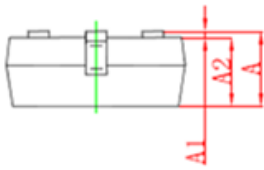
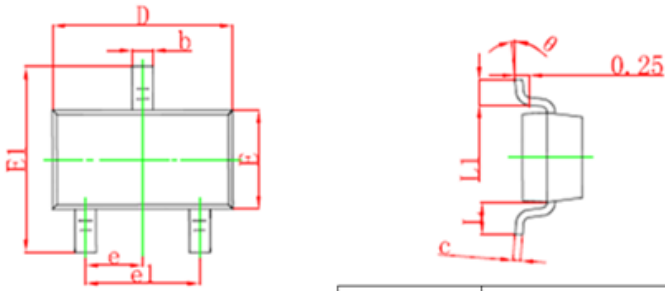
## ■ Typical Characteristics





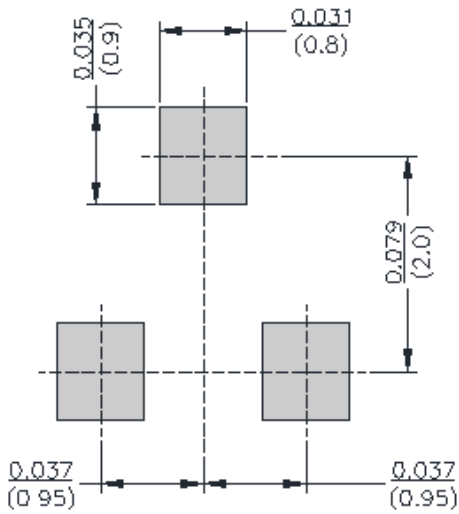
# BAS70 THRU BAS70-06

## ■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





## BAS70 THRU BAS70-06

---

### **Disclaimer**

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Diodes - General Purpose, Power, Switching category](#):*

*Click to view products by [Yangjie manufacturer](#):*

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [RD0506LS-SB-1H](#) [RGP30G-E373](#) [DSE010-TR-E](#) [BAQ333-TR](#) [BAQ335-TR](#) [BAQ33-GS18](#) [BAS1602VH6327XT](#) [BAV17-TR](#) [BAV19-TR](#) [BAV301-TR](#) [BAW27-TAP](#) [HSC285TRF-E](#) [NSVBAV23CLT1G](#) [NTE525](#) [1SS181-TP](#) [1SS184-TP](#) [1SS193,LF](#) [1SS193-TP](#) [1SS400CST2RA](#) [SBAV99LT3G](#) [SDAA13](#) [LL4448-GS18](#) [SHN2D02FUTW1T1G](#) [LS4150GS18](#) [LS4151GS08](#) [SMMD7000LT3G](#) [FC903-TR-E](#) [1N4449](#) [1N4934-E3/73](#) [1SS226-TP](#) [APT100DL60HJ](#) [RFUH20TB3S](#) [RGP30G-E354](#) [RGP30M-E3/73](#) [D291S45T](#) [MCL4151-TR](#) [BAS 16-02V H6327](#) [BAS 21U E6327](#) [BAS 28 E6327](#) [BAS33-TAP](#) [BAS 70-02V H6327](#) [BAV300-TR](#) [BAV303-TR3](#) [BAW27-TR](#) [BAW56DWQ-7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#)