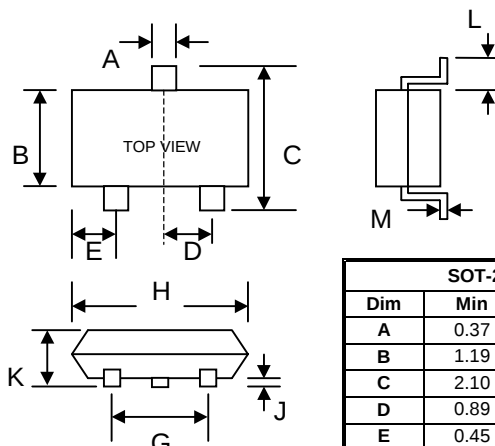


Features

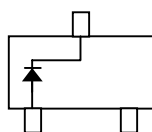
- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O



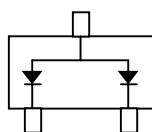
SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.19	1.40
C	2.10	2.50
D	0.89	1.05
E	0.45	0.61
G	1.78	2.05
H	2.65	3.05
J	0.013	0.15
K	0.89	1.10
L	0.45	0.61
M	0.076	0.178
All Dimensions in mm		

Mechanical Data

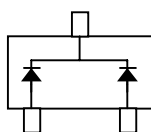
- Case: SOT-23, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.008 grams (approx.)
- Mounting Position: Any



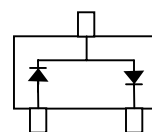
TOP VIEW



TOP VIEW



TOP VIEW



TOP VIEW

BAS70 Marking: A70 BAS70A Marking: A72 BAS70C Marking: A73 BAS70S Marking: A74

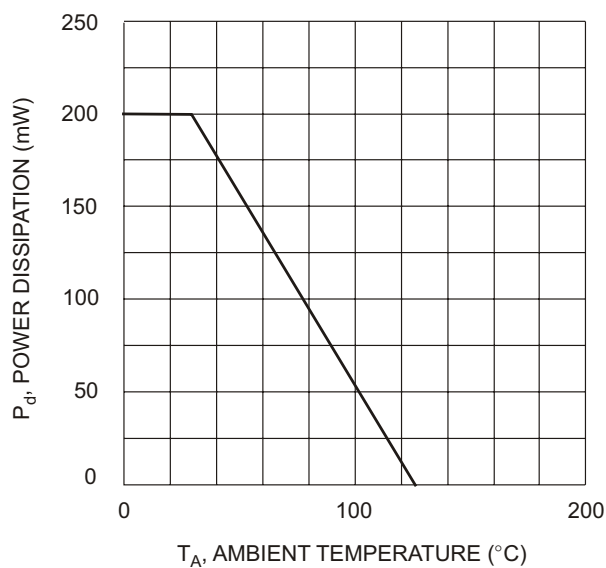
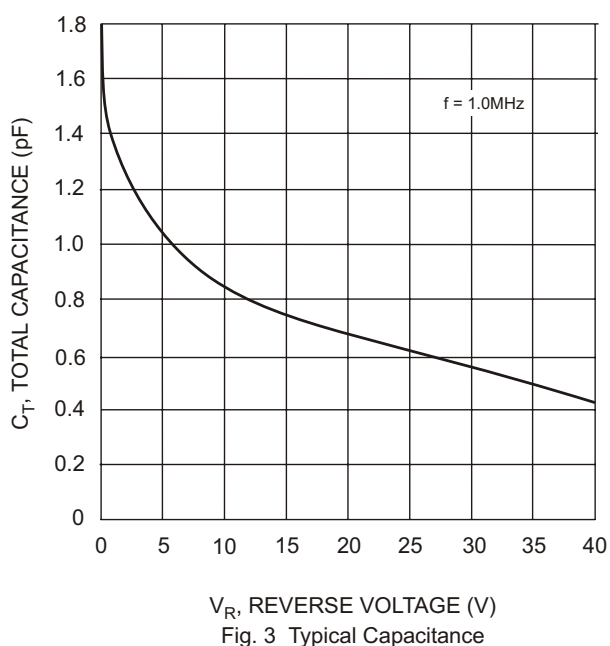
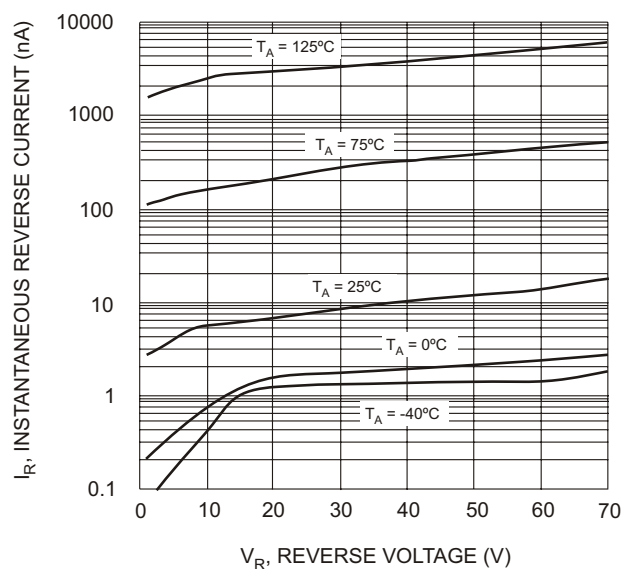
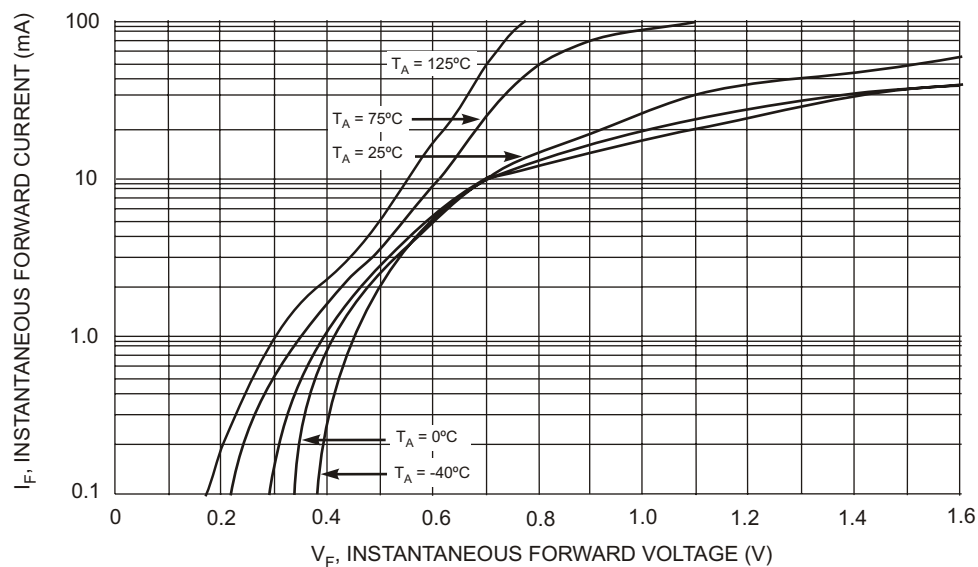
Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	V
Forward Continuous Current (Note 1)	I _F	200	mA
Forward Surge Current (Note 1) @ t < 1.0s	I _{FSM}	600	mA
Power Dissipation (Note 1)	P _d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Note: 1. Device on fiberglass substrate.

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	70	—	—	V	@ I _R = 10μA
Forward Voltage	V _F	—	—	410 750 1000	mV	@ I _F = 1.0mA, t _p < 300μs @ I _F = 10mA, t _p < 300μs @ I _F = 15mA, t _p < 300μs
Reverse Leakage Current	I _R	—	20	100	nA	@ V _R = 50V, t _p < 300μs
Junction Capacitance	C _j	—	1.5	2.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	—	5.0	nS	I _F = 10mA through I _R = 10mA to I _R = 1.0mA, R _L = 100Ω



ORDERING INFORMATION

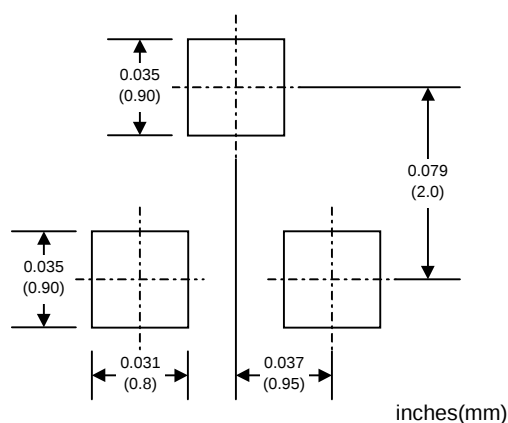
Product No.◆	Package Type	Shipping Quantity
BAS70-T1	SOT-23	3000/Tape & Reel
BAS70-T3	SOT-23	10000/Tape & Reel
BAS70A-T1	SOT-23	3000/Tape & Reel
BAS70A-T3	SOT-23	10000/Tape & Reel
BAS70C-T1	SOT-23	3000/Tape & Reel
BAS70C-T3	SOT-23	10000/Tape & Reel
BAS70S-T1	SOT-23	3000/Tape & Reel
BAS70S-T3	SOT-23	10000/Tape & Reel

Products listed in **bold** are WTE Preferred devices.

◆T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.