

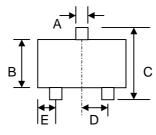
BAS70W / AW / CW / SW

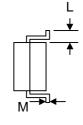


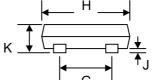
SURFACE MOUNT SCHOTTKY BARRIER DIODE

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







Mechanical Data

Case: SOT-323, Molded Plastic

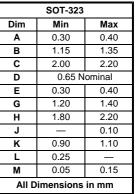
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagrams Below

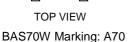
Weight: 0.006 grams (approx.)

Mounting Position: Any

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 5









TOP VIEW
BAS70AW Marking: A72



BAS70CW Marking: A73



BAS70SW Marking: A74

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	70	V
Forward Continuous Current (Note 1)	lf	200	mA
Forward Surge Current (Note 1) @ t < 1.0s	IFSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R ∂ JA	625	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 to +125	°C

Note: 1. Device on fiberglass substrate.

$\textbf{Maximum Ratings and Electrical Characteristics, Single Diode} \ @\textit{T}_{A} = 25 ^{\circ} \textit{C} \ unless \ otherwise \ specified$

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	70	_	_	V	@ I _R = 10μA
Forward Voltage	VF	-	-	410 750 1000	mV	@ $I_F = 1.0$ mA, $t_P < 300$ µs @ $I_F = 10$ mA, $t_P < 300$ µs @ $I_F = 15$ mA, $t_P < 300$ µs
Reverse Leakage Current	lR	_	20	100	nA	@ $V_R = 50V$, tp < 300μ s
Junction Capacitance	Cj	_	1.5	2.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	_	5.0	nS	I_F = 10mA through I_R = 10mA to I_R = 1.0mA, R_L = 100 Ω

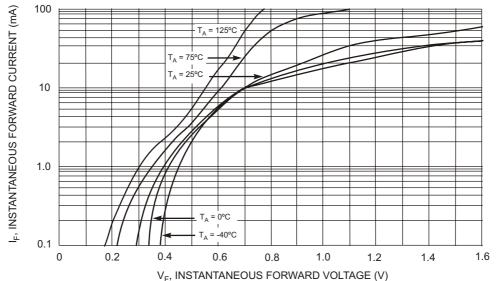


Fig. 1 Typical Forward Characteristics

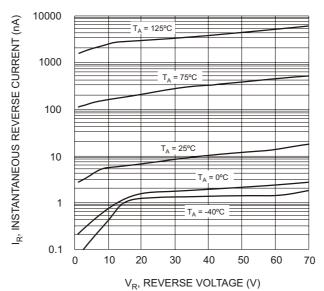
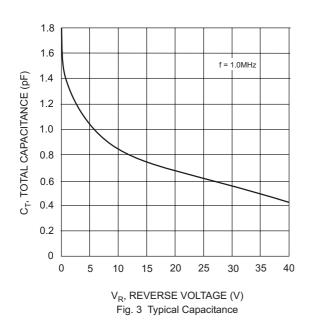


Fig. 2 Typical Reverse Characteristics



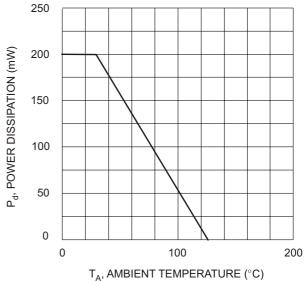
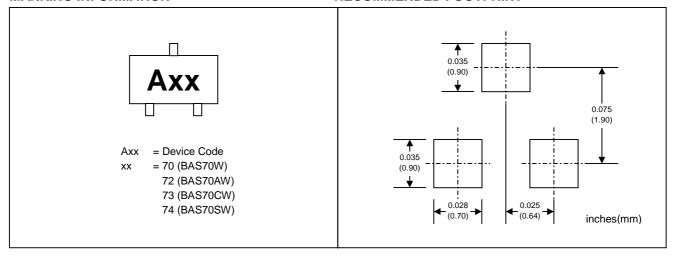


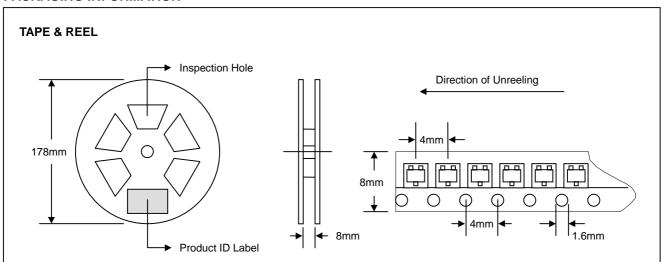
Fig. 4 Power Derating Curve, Total Package

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BAS70W-T1	SOT-323	3000/Tape & Reel
BAS70AW-T1	SOT-323	3000/Tape & Reel
BAS70CW-T1	SOT-323	3000/Tape & Reel
BAS70SW-T1	SOT-323	3000/Tape & Reel

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

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAS70W-T1-LF.

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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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