



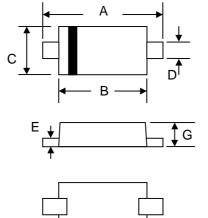
# SURFACE MOUNT SCHOTTKY BARRIER DIODE

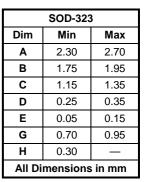
## Features

- 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: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: A70
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 3





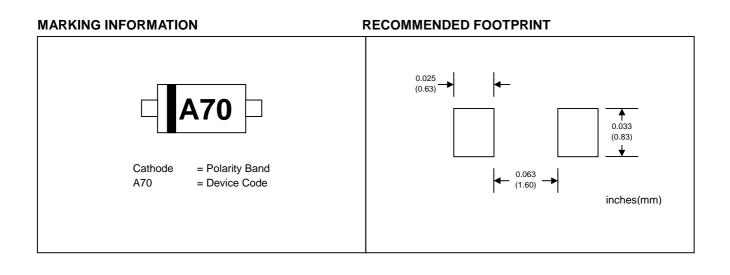
## Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	BAS70WS	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	@ 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		Тј, Тѕтс	-55 to +125	°C

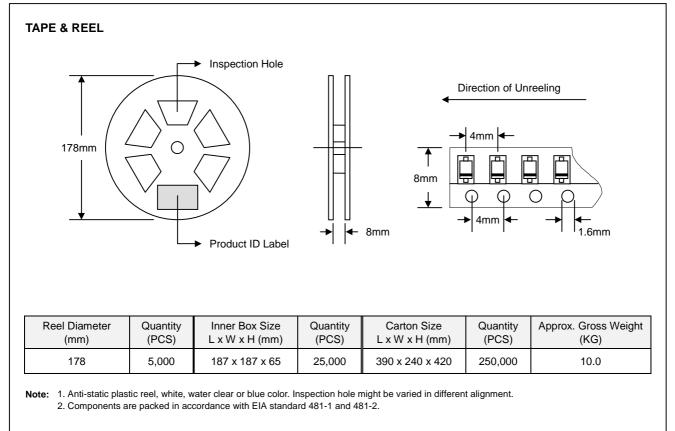
### Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	70	_	_	V	@ IR = 10µA
Forward Voltage	VF	_	_	410 750 1000	mV	@ IF = 1.0mA, t < 300µs @ IF = 10mA, t < 300µs @ IF = 15mA, t < 300µs
Reverse Leakage Current	IR	—	20	100	nA	@ V <sub>R</sub> = 50V, t < 300µs
Junction Capacitance	Cj	_	1.5	2.0	pF	$V_{R} = 0V, f = 1.0MHz$
Reverse Recovery Time	trr	_	_	5.0	nS	IF = 10mA through IR = 10mA to IR = 1.0mA, RL = 100 $\Omega$

Note: 1. Device on fiberglass substrate.



### **PACKAGING INFORMATION**



## **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity		
BAS70WS-T1	SOD-323	5000/Tape & Reel		

Shipping quantity given is for minimum packing quantity only. For minimum 1.

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, BAS70WS-T1-LF. 2.

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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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