SCHOTTKY BARRIER RECTIFIERS FEATURES

- · Low power loss, high efficiency
- · High current capability
- · High surge capability
- · Fast switching speed

MECHANICAL DATA

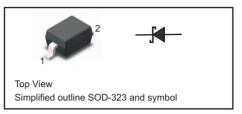
•Case: SOD-323

■Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



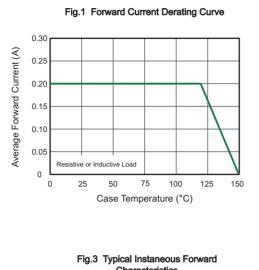
Absolute Maximum Ratings and Electrical characteristics

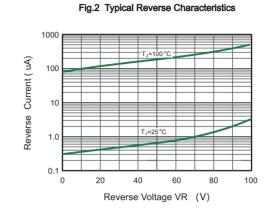
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

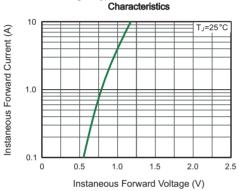
Parameter	Symbols	BAS70WS	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Maximum Average Forward Current at Ta=25°C	Io	0.2	А
Power Dissipation	Ртот	225	mW
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25	А
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50	А
I²t Rating for fusing (3ms≤t≤8.3ms)	l ² t	2.6	A ² S
Maximum Instantaneous Forward Voltage	V _F	0.47 @ IF=1.0mA 0.75 @ IF=10mA 1.0 @ IF=15mA	V
Reverse Breakdown Voltage @Iв=10uA	$V_{(BR)}$	70 (min)	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1 @VR=50V 1.0 @VR=70V	uA
Typical Junction Capacitance(Note 1)	C _i	20	pF
Typical Thermal Resistance(Note 2)	R _{0JA} R _{0JC} R _{0JL}	150 50 75	°C/W
Storage and Operating Junction Temperature Range	T_{j}, T_{stg}	-55 ~ +150	°C

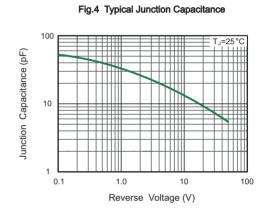
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

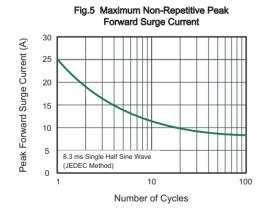
⁽²⁾ P.C.B. mounted with 0.1" X 0.1" (2.54 X 2.54 mm) copper pad areas.

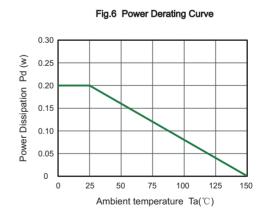








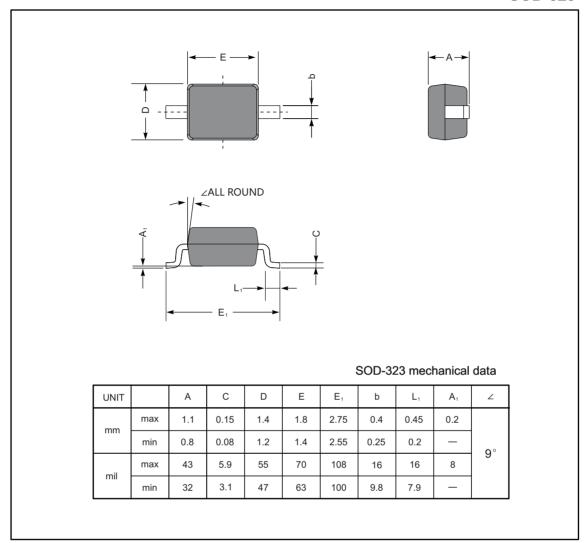




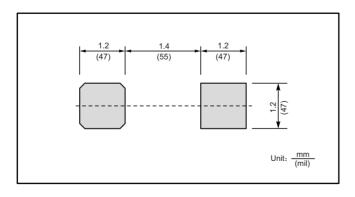
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



Marking

Type number	Marking code		
BAS70WS	A70		

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