

**SINLOON®**

肖特基二極管

**BAS70WS**

**SURFACE MOUNT SCHOTTKY BARRIER DIODE SOD-323 (70V 0.2A)**

**FEATURE:**

- ◆ Ultra high-speed switching
- ◆ Low forward voltage
- ◆ Low diode capacitance.
- ◆ Very small SMD package
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

**Figure**



**MECHANICAL CHARACTERISTICS:**

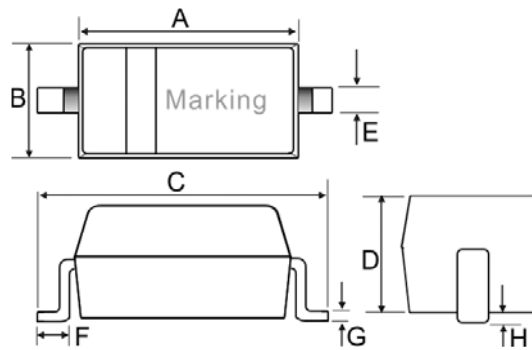
- ◆ Case: SOD-323 Molded Plastic
- ◆ Weight: 0.004 Grams (approx)
- ◆ Marking: Body top
- ◆ Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- ◆ Mounting: Position any
- ◆ Lead Free for **RoHS** Lead free version and "LF" suffix to part number.

BAS70WS

Marking  
A70

**DIMENSION:** mm

SOD-323		
Dim	Min	Max
A	1.6	1.8
B	1.15	1.35
C	2.3	2.75
D	0.8	1.0
E	0.25	0.4
F	0.08	0.09
G	0.09	0.18
H	<	0.13



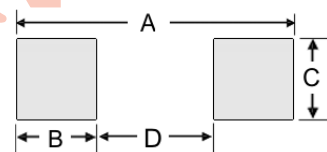
**Maximum Ratings and Electrical Characteristics Single Diode @T<sub>A</sub>=25°C unless otherwise specified**

Characteristics	Symbol	BAS70WS	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	70	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	70	V
DC Blocking Voltage	V <sub>R</sub>	70	V
Forward Continuous Current (Note <sup>1</sup> )	I <sub>F</sub>	200	mA
Forward Surge Current (Note <sup>1</sup> ) @t<1.0s	I <sub>FSM</sub>	600	mA
Power Dissipation (Note <sup>1</sup> )	P <sub>d</sub>	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note <sup>1</sup> )	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55+125	°C

Note<sup>1</sup>: Device on fiberglass substrate.  
Refer SOD-323 standard mounting conditions.

**RECOMMENDED FOOTPRINT**

Dimension	mm	inches
A	2.86	0.113
B	0.63	0.025
C	0.83	0.033
D	1.6	0.063



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□ **Maximum Ratings and Electrical Characteristics Single Diode @ $T_A=25^\circ\text{C}$  unless otherwise specified**

Characteristic	Symbol	Min.	Typ	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	70	----	----	V	@ $I_R=10\mu\text{A}$
Forward Voltage	$V_F$	----	----	410	mV	@ $I_F=1.0\text{mA}$ , $t<300\mu\text{s}$
		----	----	750	mV	@ $I_F=10\text{mA}$ , $t<300\mu\text{s}$
		----	----	1000	mV	@ $I_F=15\text{mA}$ , $t<300\mu\text{s}$
Reverse Leakage Current	$I_R$	----	20	100	nA	$V_R=50\text{V}$ , $t<300\mu\text{s}$
Junction Capacitance	$C_j$	----	1.5	2.0	pF	$V_R=0\text{V}$ , $f=1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	----	----	5.0	nS	$I_F=10\text{mA}$ , through $I_R=10\text{mA}$ to $I_R=1.0\text{mA}$ , $R_L=100\Omega$

□ **ELECTRICAL CHARACTERISTICS CURVRE**

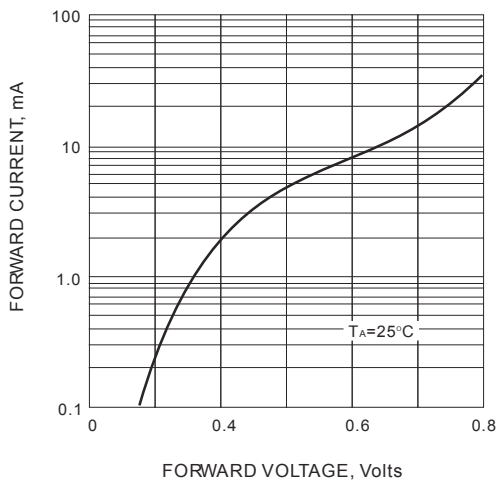


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

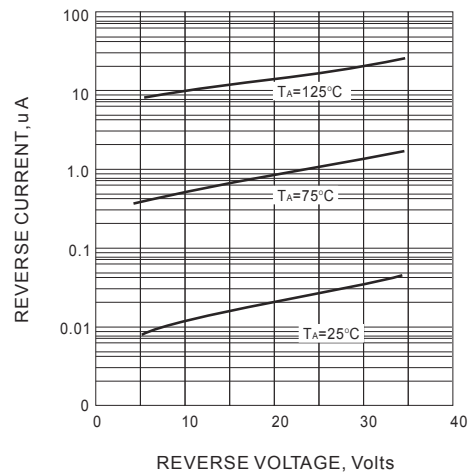


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

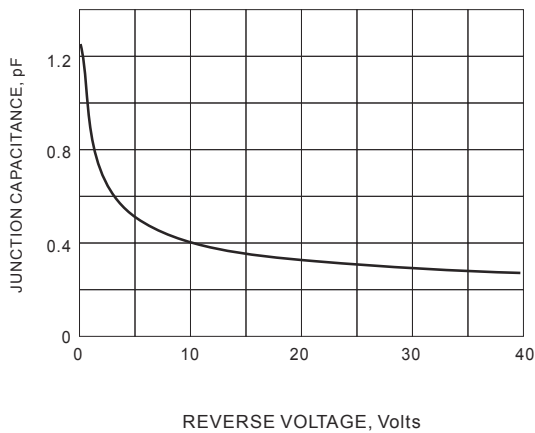


FIG. 3 TYPICAL JUNCTION CAPACITANCE

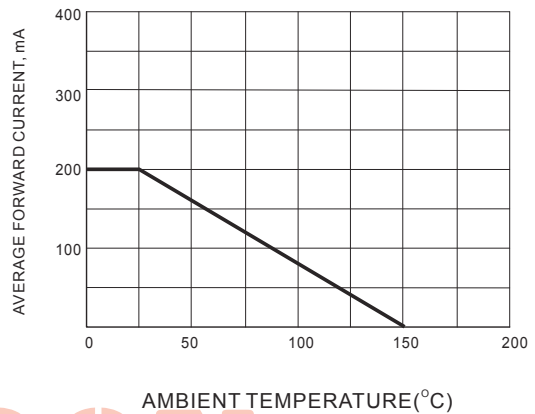


FIG. 4 FORWARD CURRENT DERATING

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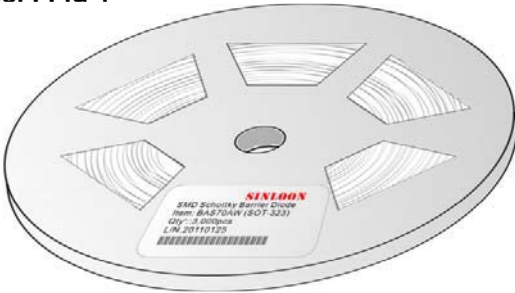
**SURFACE MOUNT SCHOTTKY BARRIER DIODE SOD-323 (70V 0.2A )**

**COMMON PACKING INFORMATION:**

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
BAS70WS	SOD-323	3000 Tape & Reel	150,000 Ctn	7.0/Kg

Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size (mm)	Carton Size (mm)
178	3000	L: 187 x W:187 x H: 65	L:390 x W:240 x H:420

Reel : Fig-1



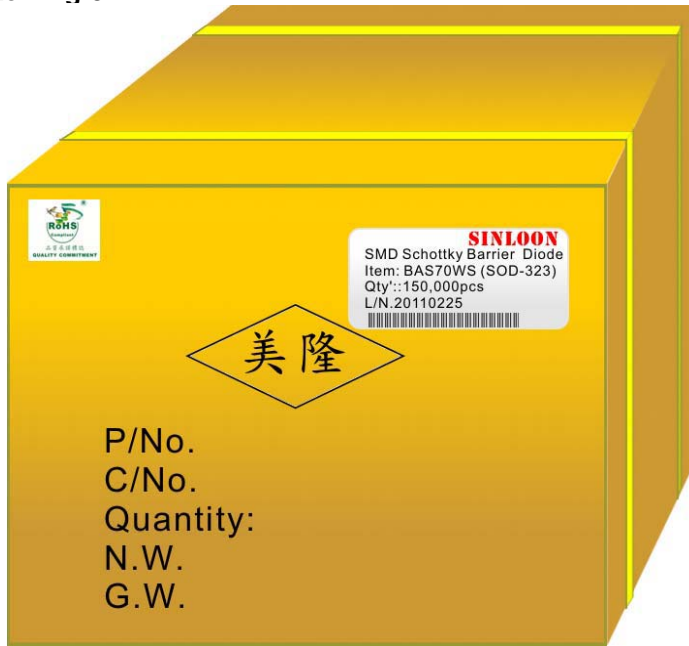
Q'ty: 3,000/Reel

Inner Box: Fig-2



Q;ty: 15,000/Box

Carton Pack Fig-3



Q'ty: 150,000/Carton.

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美隆電子產品規格特性參數的改變或更新,將不會另行通知。

Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。

