



肖特基二極管

BAS40WS

SURFACE MOUNT SCHOTTKY BARRIER DIODE SOD-323 (40V 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:

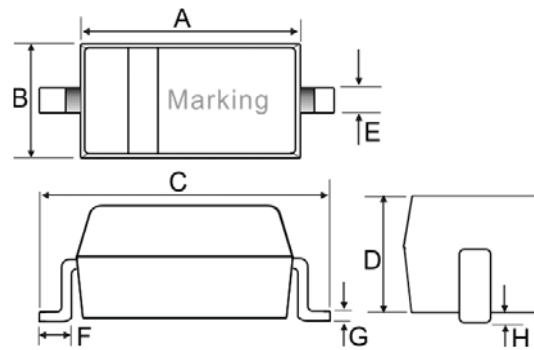
- ◆ Case: SOD-323 Molded Plastic
- ◆ Weight: 0.004 Grams (approx)
- ◆ Marking: Body top
- ◆ Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- ◆ Mounting: Position any
- ◆ Lead Free for **RoHS** Lead free version and "LF" suffix to part number.

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Marking
S40

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



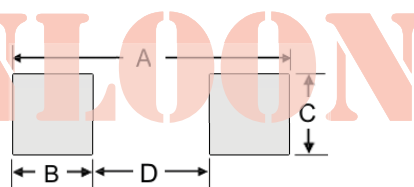
Maximum Ratings and Electrical Characteristics Single Diode @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current (Note ¹)	I_F	200	mA
Forward Surge Current (Note ¹) @ $t<1.0\text{s}$	I_{FSM}	600	mA
Power Dissipation (Note ¹)	P_d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note ¹)	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55+125	$^\circ\text{C}$

Note¹: Device on fiberglass substrate.
Refer SOD-323 standard mounting conditions.

RECOMMENDED FOOTPRINT

Dimension	mm	inches
A	2.09	0.113
B	0.63	0.025
C	1.6	0.063
D	0.83	0.033





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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	$V_{(BR)R}$	40	----	----	V	@ $I_R=10\mu\text{A}$
Forward Voltage	V_F	----	----	380	mV	@ $I_F=1.0\text{mA}$, $t<300\mu\text{s}$
		----	----	500	mV	@ $I_F=10\text{mA}$, $t<300\mu\text{s}$
		----	----	1000	mV	@ $I_F=40\text{mA}$, $t<300\mu\text{s}$
Reverse Leakage Current	I_R	----	20	200.0	nA	$V_R=30\text{V}$, $t<300\mu\text{s}$
Junction Capacitance	C_j	----	4.0	5.0	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

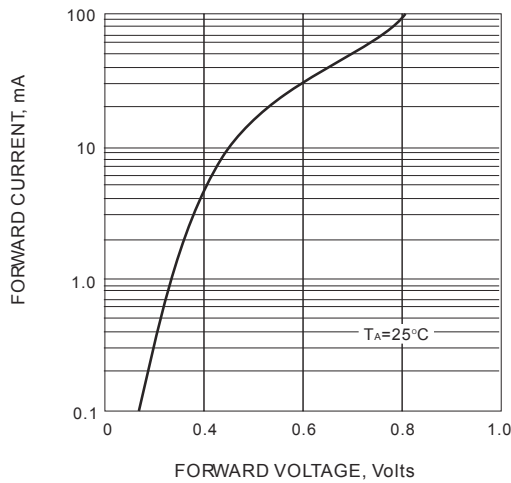


Fig. 1 TYPICAL FORWARD CHARACTERISTIC

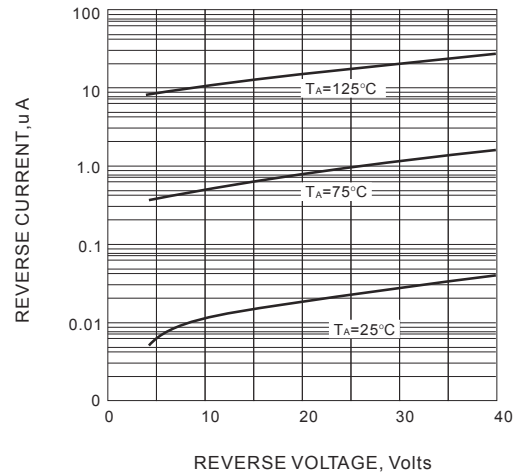


Fig. 2 TYPICAL REVERSE CHARACTERISTICS

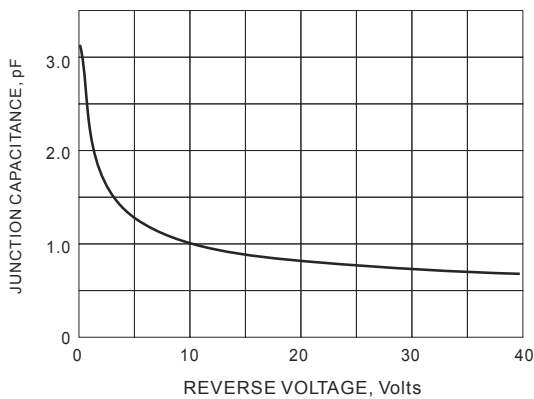


FIG. 3 TYPICAL JUNCTION CAPACITANCE

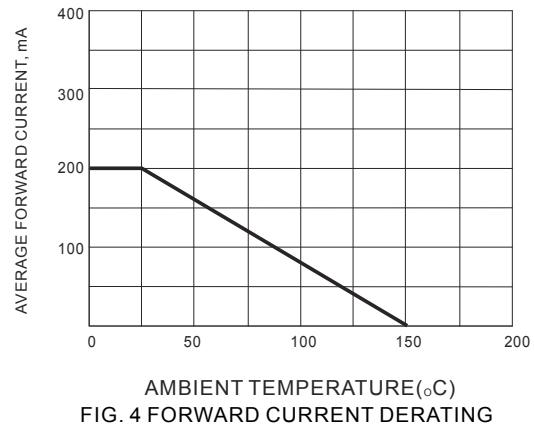


FIG. 4 FORWARD CURRENT DERATING

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COMMON PACKING INFORMATION:

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
BAS40WS	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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Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。

