

BAS16WS

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 100 Volt **CURRENT** 0.1 Ampere

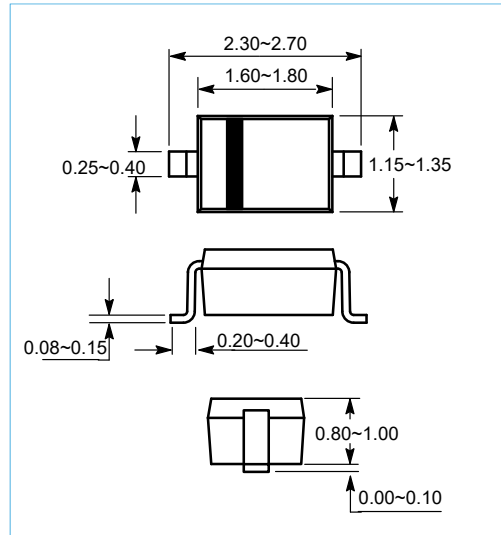
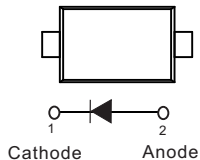
SOD-323 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: A6

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	100	V
Reverse voltage	V_R	75	V
Average Rectified Output Current	I_O	0.1	A
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	($I_R = 10 \mu\text{A}$)	75			V
Reverse Leakage	I_R	($V_R = 75 \text{V}$)			1.0	μA
Forward Voltage	V_F	($I_F = 1.0 \text{mA}$) ($I_F = 10 \text{mA}$) ($I_F = 50 \text{mA}$) ($I_F = 150 \text{mA}$)			0.715 0.855 1.00 1.25	V
Total Capacitance	C_T	($V_R = 0 \text{V}$, $f = 1.0 \text{MHz}$)			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100 \Omega$			6.0	ns

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Typical Characteristics

Figure 1. Forward Voltage

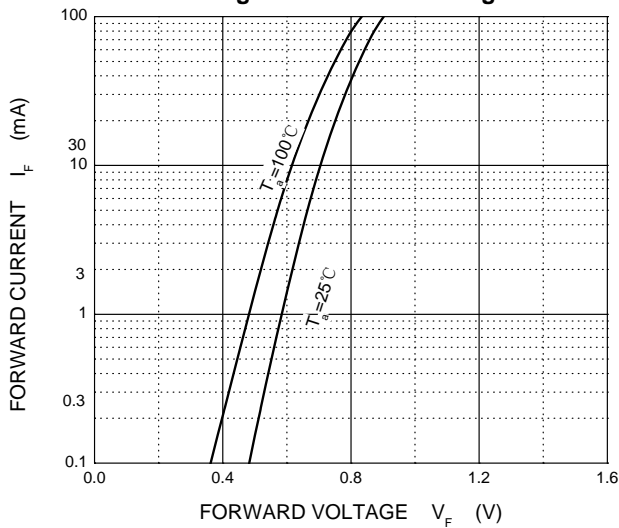


Figure 2. Reverse Characteristics

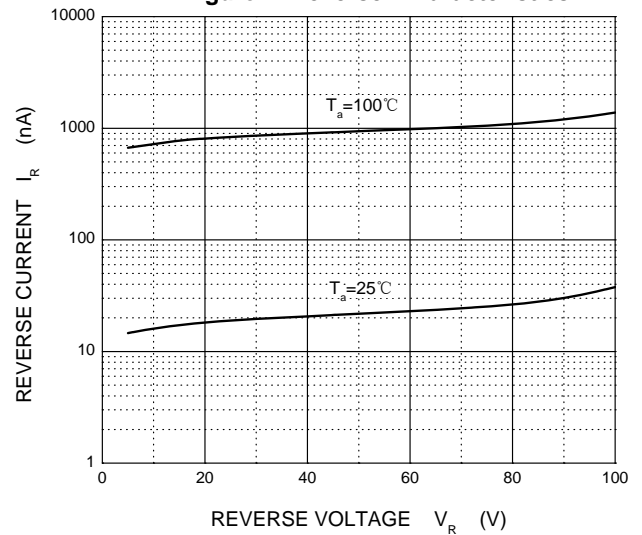


Figure 3. Capacitance Characteristics

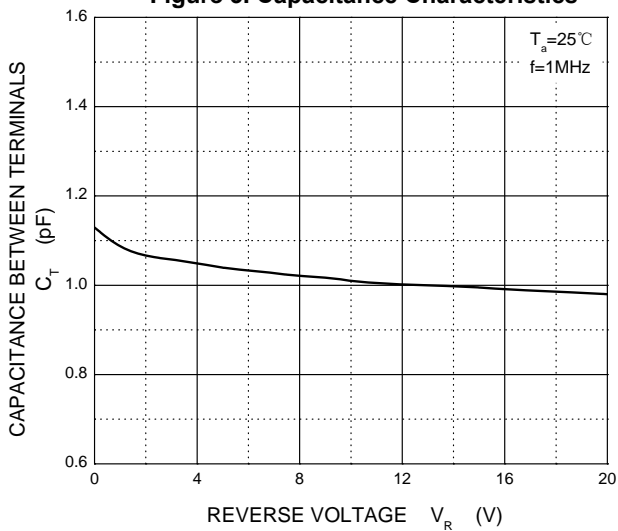
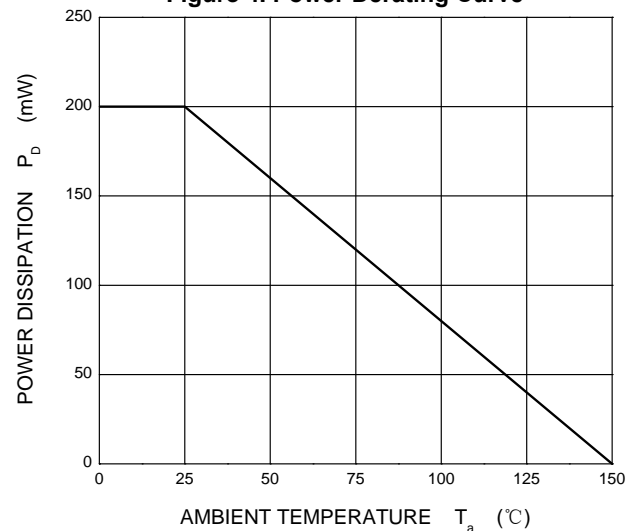


Figure 4. Power Derating Curve

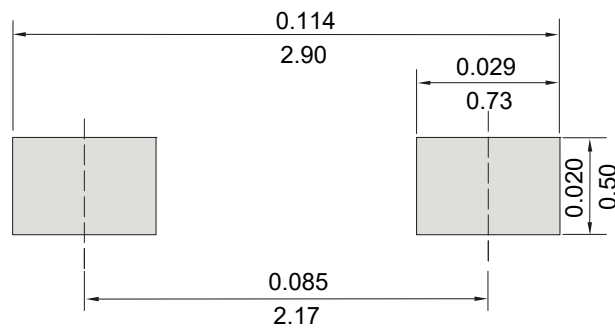


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAS16WS	SOD-323	7 Inch	3000