

BAV19WS-AU~BAV21WS-AU

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120-250 Volt **POWER** 200mWatt

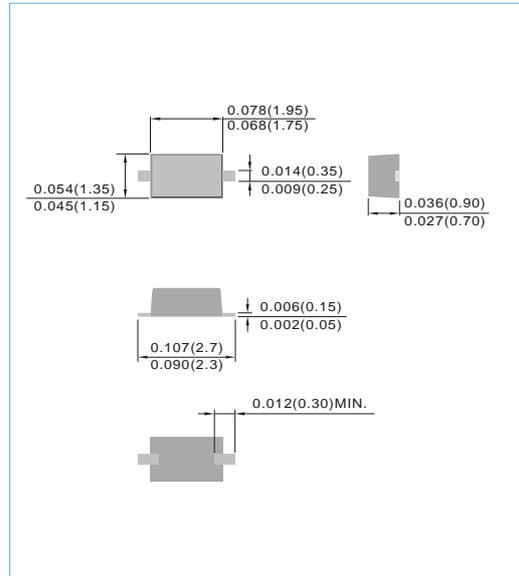
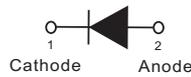
SOD-323 Unit : inch(mm)

FEATURES

- Fast switching speed.
- Surface mount package ideally suited for automatic insertion
- Electrically identical to Standard JEDEC
- High conductance
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAV19WS-AU	BAV20WS-AU	BAV21WS-AU	UNITS
Marking Code		A8	A80	A82	
Reverse Voltage	V_R	100	150	200	V
Peak Reverse Voltage	V_{RM}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	I_O	200			mA
Peak Forward Surge Current, 0.001ms	I_{FSM}	4			A
Power Dissipation Derate Above 25°C	P_{TOT}	200			mW
Maximum Forward Voltage at 0.1A	V_F	1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$	I_R	0.1			μA
Typical Junction Capacitance (Note 1)	C_J	5			pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	50			ns
Maximum Thermal Resistance (Note 3) (Note 4)	$R_{\theta JA}$ $R_{\theta JC}$	640 260			$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150			$^\circ\text{C}$

NOTE :

- 1.CJ at $V_R=0$, $f=1\text{MHZ}$
- 2.From $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{Volts}$, $R_L=100\Omega$
- 3.Mounted with minmum recommended pas eize, PC Board FR4
- 4.Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area

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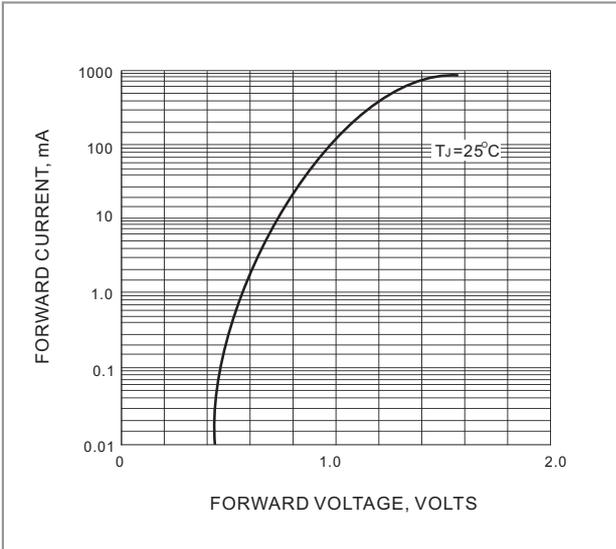


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

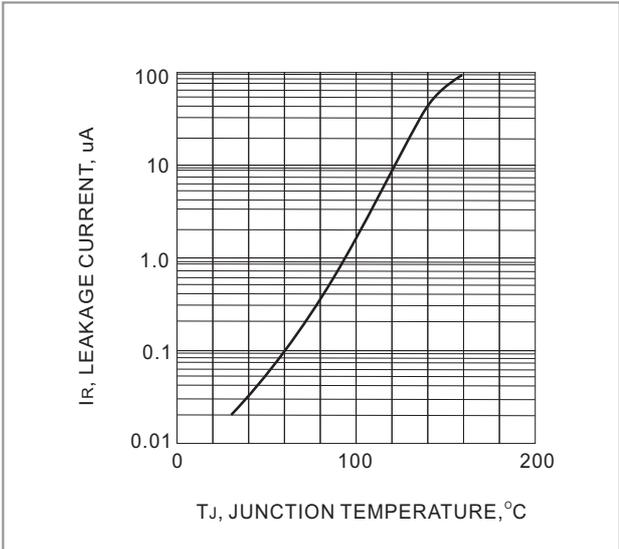


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE

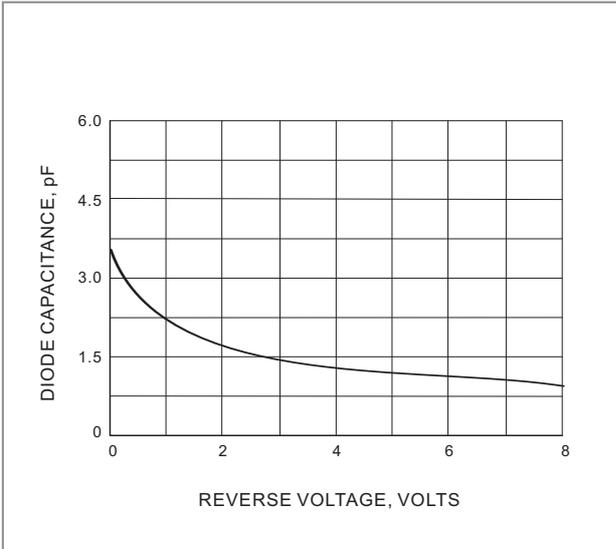


FIG. 3 TYPICAL JUNCTION CAPACITANCE

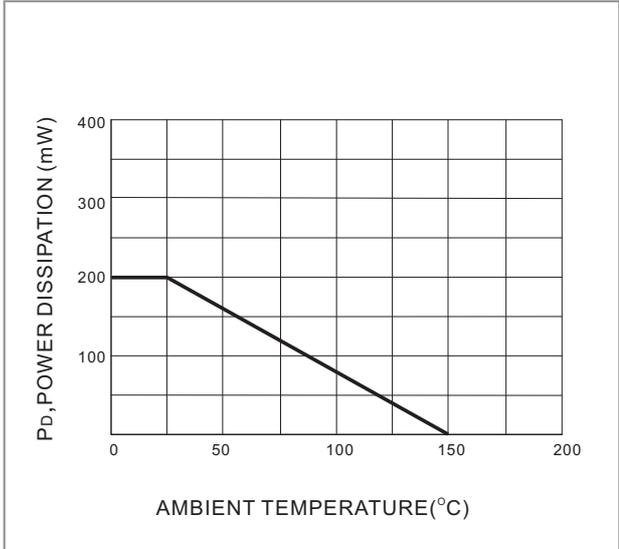


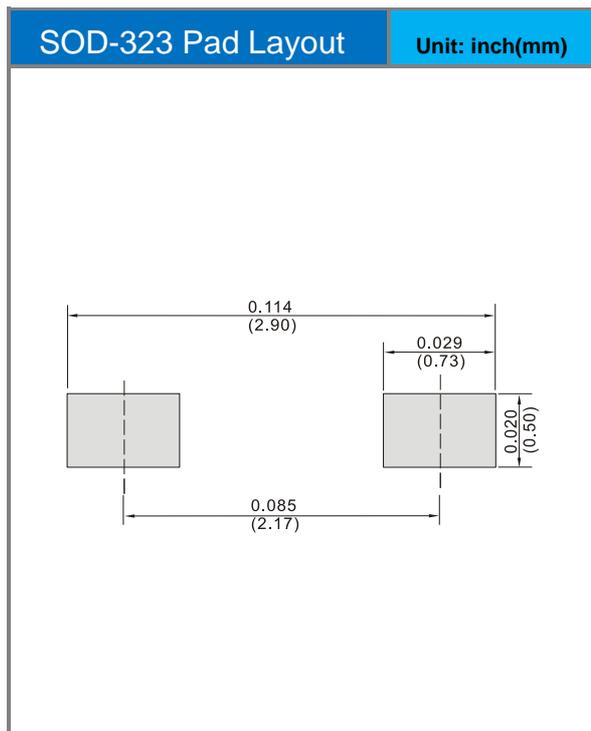
FIG. 4 POWER DERATING CURVE

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAV19WS-AU	SOD-323	5K pcs / 7" reel	A8
BAV19WS-AU	SOD-323	12K pcs / 13" reel	A8
BAV20WS-AU	SOD-323	5K pcs / 7" reel	A80
BAV20WS-AU	SOD-323	12K pcs / 13" reel	A80
BAV21WS-AU	SOD-323	5K pcs / 7" reel	A82
BAV21WS-AU	SOD-323	12K pcs / 13" reel	A82

Mounting Pad Layout



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