

BAV21W-AU

SURFACE MOUNT SWITCHING DIODES

VOLTAGE

250 Volts

POWER

410mWatts

SOD-123

Unit : inch(mm)

FEATURES

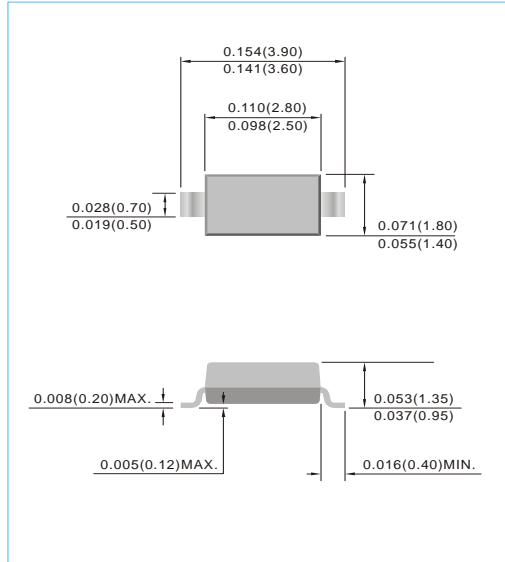
- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified

MECHANICAL DATA

Case: SOD-123, Plastic

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

Approx. Weight: 0.0004 ounces, 0.01 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code		A82	
Reverse Voltage	V_R	200	V
Peak Reverse Voltage	V_{RM}	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	I_o	200	mA
Peak Forward Surge Current, 1ms	I_{FSM}	4	A
Power Dissipation Derate Above 25°C	P_{TOT}	410	mW
Maximum Forward Voltage at 0.1A	V_F	1	V
Maximum Reverse Current at $T_J=25^\circ\text{C}$	I_R	0.1 @ 200	μA
Typical Junction Capacitance(Notes1)	C_J	5	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	50	ns
Typical Thermal Resistance	$R_{\theta JA}$	450	$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

NOTE:

1. C_J at $V_R=0$, $f=1\text{MHz}$

2. From $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{Volts}$, $R_L=100\Omega$

BAV21W-AU

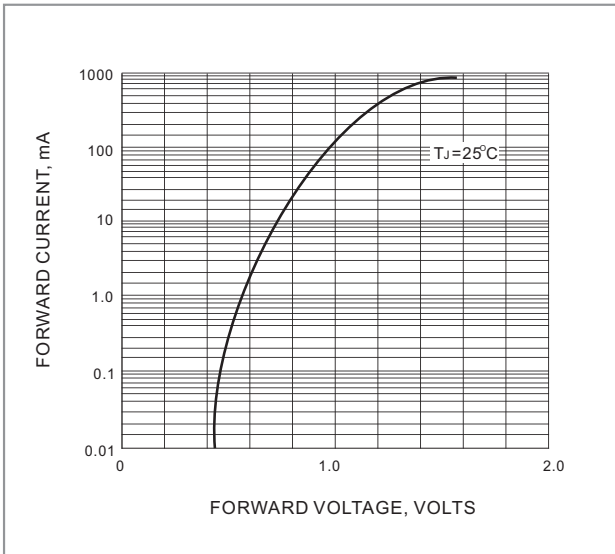


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

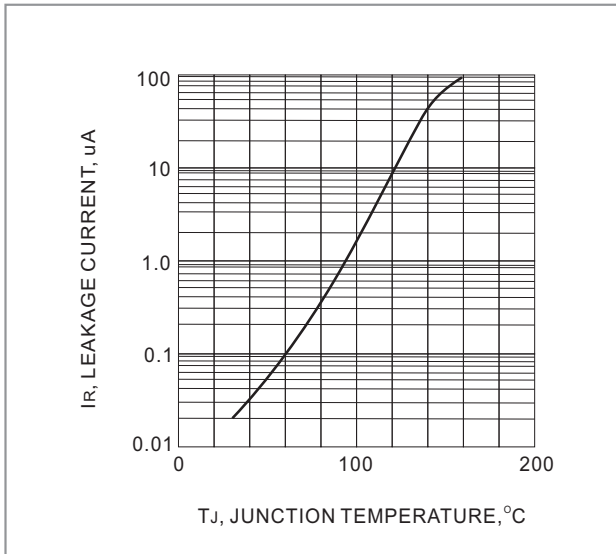


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE

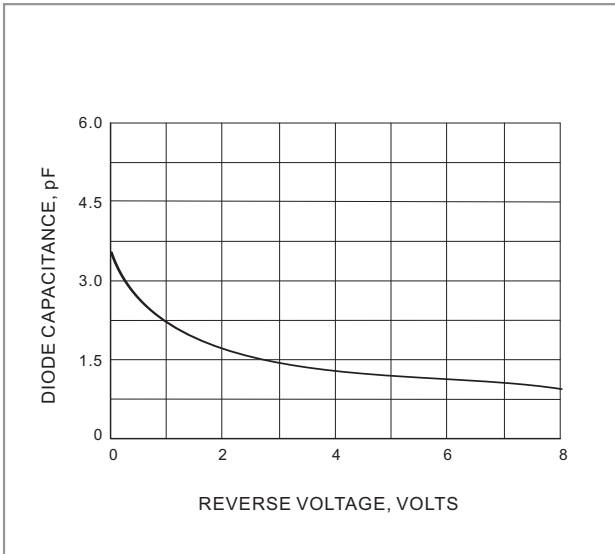


FIG. 3 TYPICAL JUNCTION CAPACITANCE

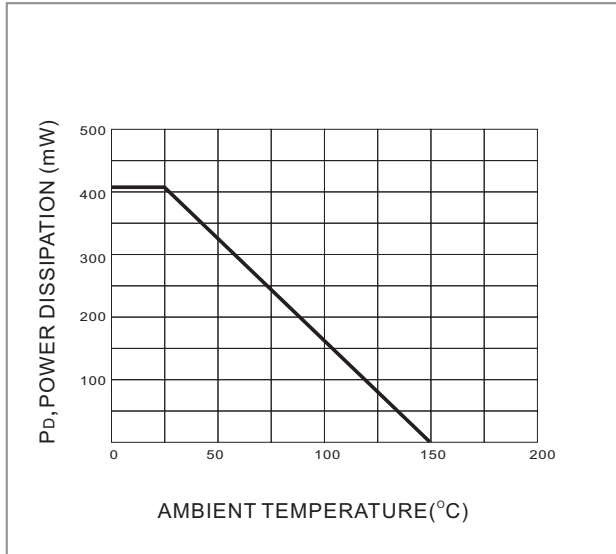


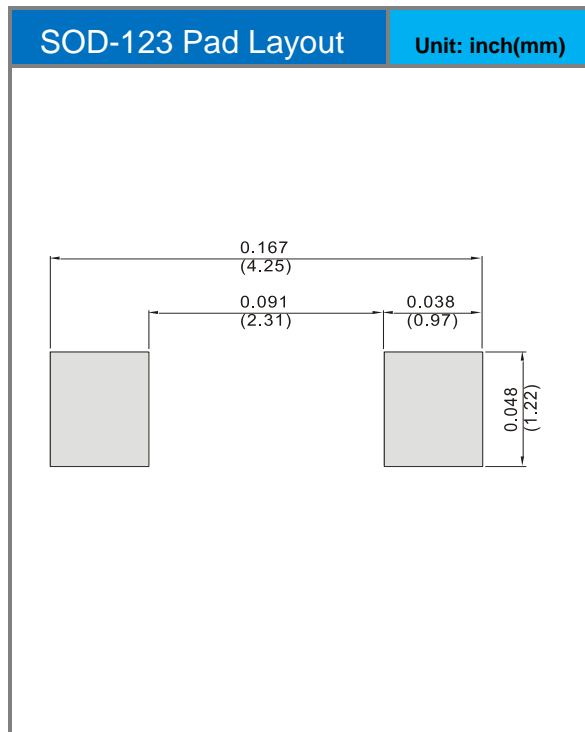
FIG. 4 POWER DERATING CURVE

BAV21W-AU

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAV21W-AU	SOD-123	3K pcs / 7" reel	A82
BAV21W-AU	SOD-123	10K pcs / 13" reel	A82

Mounting Pad Layout



BAV21W-AU

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.