

SURFACE MOUNT SWITCHING DIODES

Voltage

100 V

Power

350 mW

Features

- Fast Switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

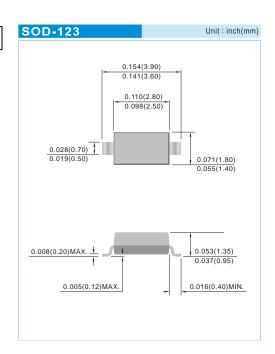
• Case: SOD-123 plastic case

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

Standard packaging: 8mm tape

• Approx. Weight: 0.00037 ounces, 0.0104 grams

Marking: A6





Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Reverse voltage	VR	75	V
Peak reverse voltage	VRM	100	V
RMS voltage	VRMS	50	V
Maximum DC blocking voltage	VDC	75	V
Maximum average forward current at T _A =25 °C	lav	150	mA
Peak forward surge current : 1µs	IFSM	4	Α
Power dissipation derate above 25 °C	Ртот	350	mW
Maximum forward voltage	VF	0.855 / 0.01A	V
Maximum dc reverse current at rated dc blocking voltage T _J =25 °C	lr	1@75V	μА
Junction capacitance (Notes 1)	Cı	2	pF
Maximum reverse recovery (Notes 2)	Trr	6	ns
Typical thermal resistance	Rөja	450	°C/W
Operating junction temperature range	TJ	-55 to +150	°C

Note: 1.CJ at VR=0,f=1MHz

2. From I_F=10mA to I_R=1mA, V_R=6V, R_L=100 Ω



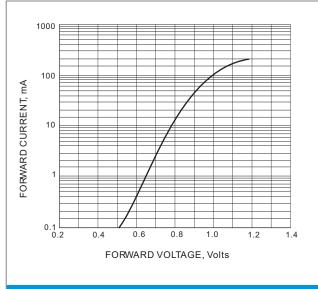


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

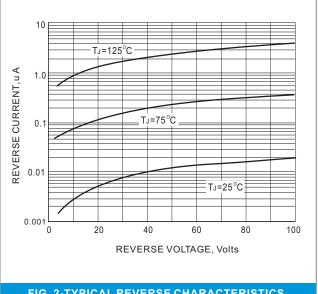
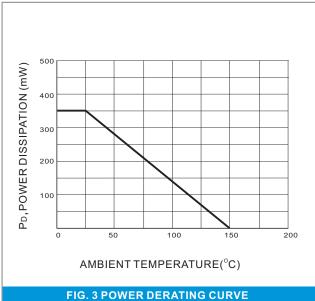


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

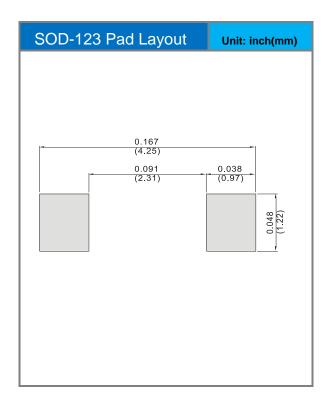




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
BAV16W	SOD-123	3K pcs / 7" reel	A6	
BAV16W	SOD-123	10K pcs / 13" reel	A6	

Mounting Pad Layout



December 11,2025 BAV16W-REV.03 Page 3



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 follow PCN procedure. 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.

December 11,2025 BAV16W-REV.03 Page 4