



# BAV16W

## SURFACE MOUNT SWITCHING DIODES

**Voltage**

**100 V**

**Power**

**350 mW**

**SOD-123**

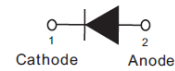
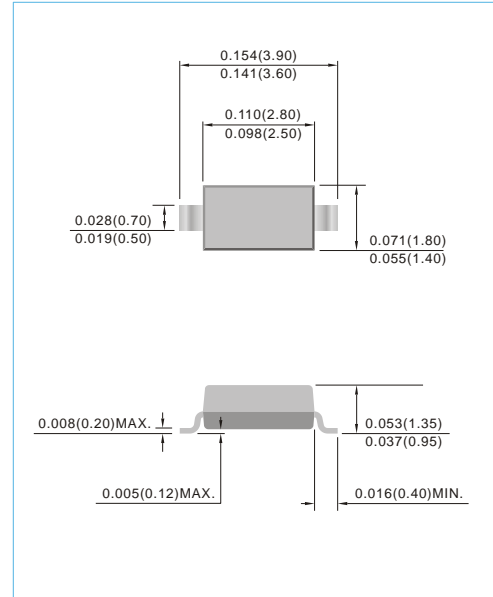
Unit : inch(mm)

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

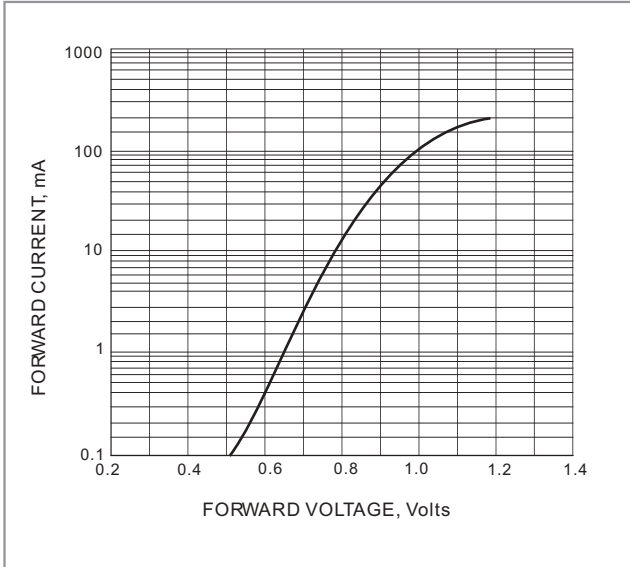
PARAMETER	SYMBOL	VALUE	UNIT
Reverse voltage	$V_R$	75	V
Peak reverse voltage	$V_{RM}$	100	V
RMS voltage	$V_{RMS}$	50	V
Maximum DC blocking voltage	$V_{DC}$	75	V
Maximum average forward current at $T_A = 25^\circ\text{C}$	$I_{AV}$	150	mA
Peak forward surge current : 1 $\mu\text{s}$	$I_{FSM}$	4	A
Power dissipation derate above 25 $^\circ\text{C}$	$P_{TOT}$	350	mW
Maximum forward voltage	$V_F$	0.855 / 0.01A	V
Maximum dc reverse current at rated dc blocking voltage $T_J = 25^\circ\text{C}$	$I_R$	1@75V	$\mu\text{A}$
Junction capacitance (Notes 1)	$C_J$	2	pF
Maximum reverse recovery (Notes 2)	$T_{RR}$	6	ns
Typical thermal resistance	$R_{\theta JA}$	450	$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	-55 to +150	$^\circ\text{C}$

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

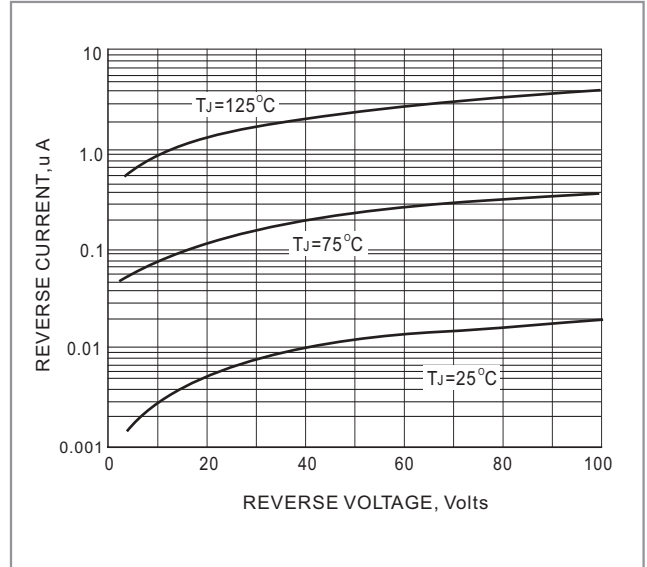
2. From  $I_F=10\text{mA}$  to  $I_R=1\text{mA}$ ,  $V_R=6\text{V}$ ,  $R_L=100\Omega$



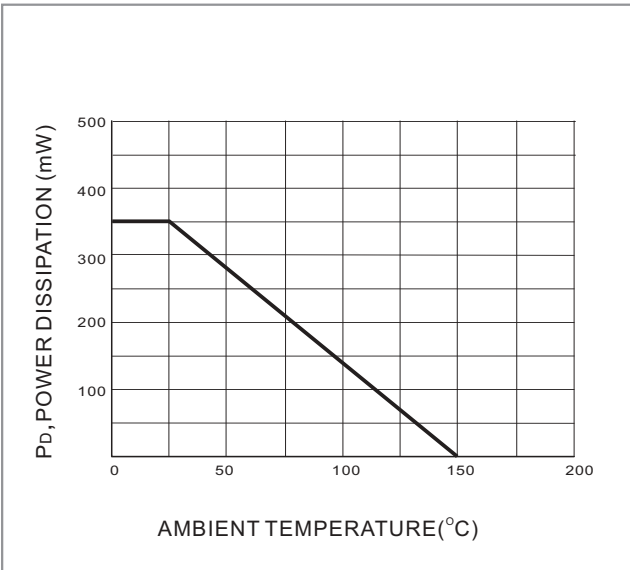
# BAV16W



**FIG. 1-TYPICAL FORWARD CHARACTERISTIC**



**FIG. 2-TYPICAL REVERSE CHARACTERISTICS**

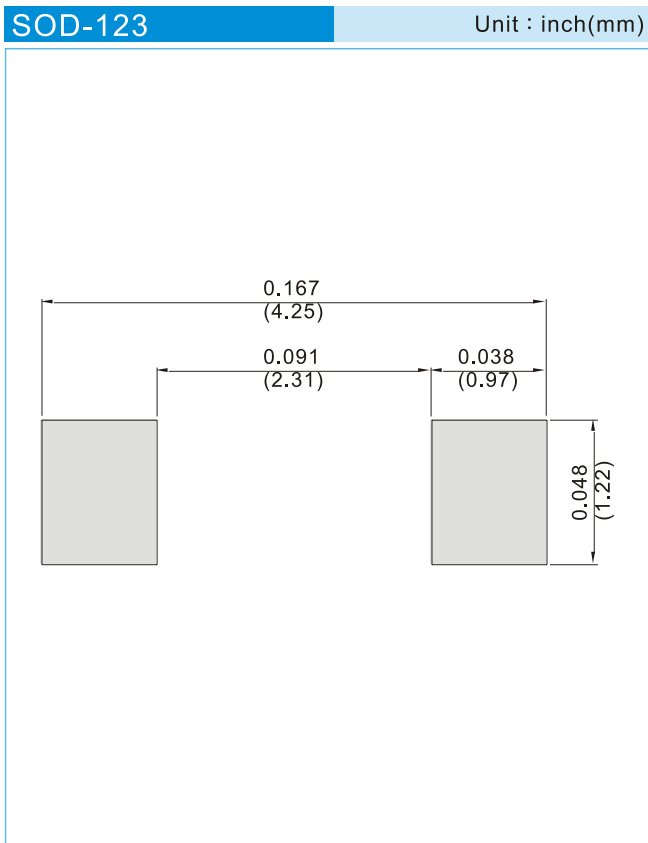


**FIG. 3 POWER DERATING CURVE**



# BAV16W

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R – 10K per 13" plastic Reel  
T/R – 3K per 7" plastic Reel



# BAV16W

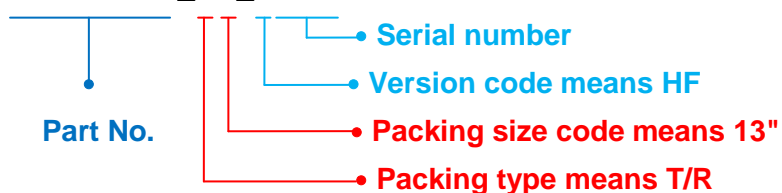
**Part No\_packing code\_Version**

BAV16W\_R1\_00001

BAV16W\_R2\_00001

**For example :**

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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