



BAV16W

SURFACE MOUNT SWITCHING DIODES

Voltage

100 V

Power

350 mW

SOD-123

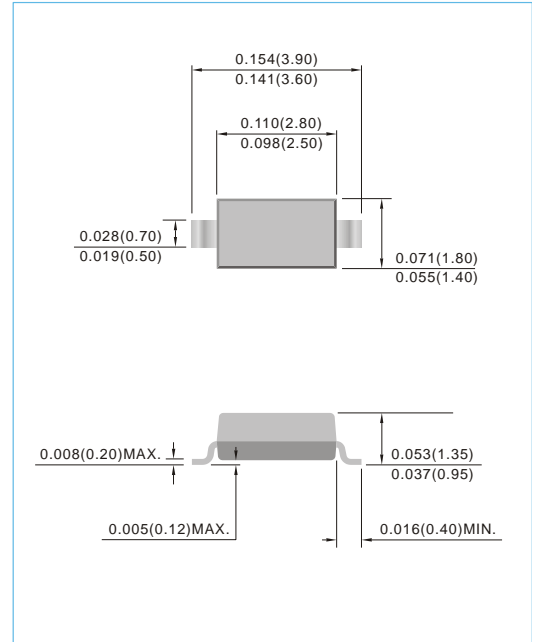
Unit : inch(mm)

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 2011/65/EU directive
- Green molding compound as per IEC61249 Std..
(Halogen Free)

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 μs	I_{FSM}	4	A
Power dissipation derate above 25°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	μA
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 $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$



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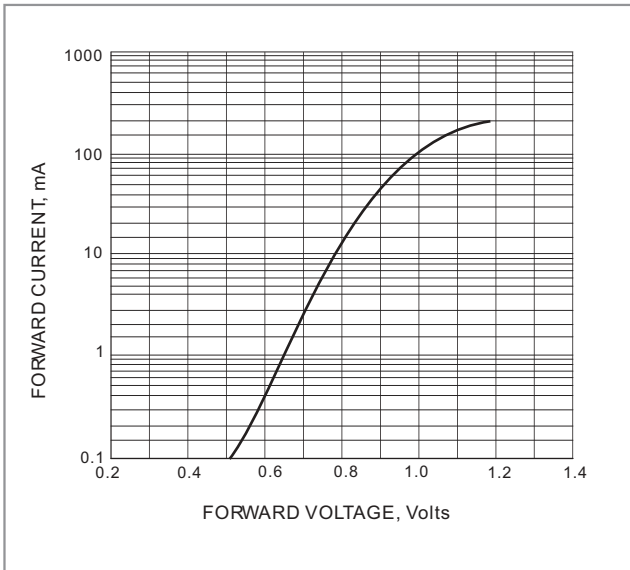


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

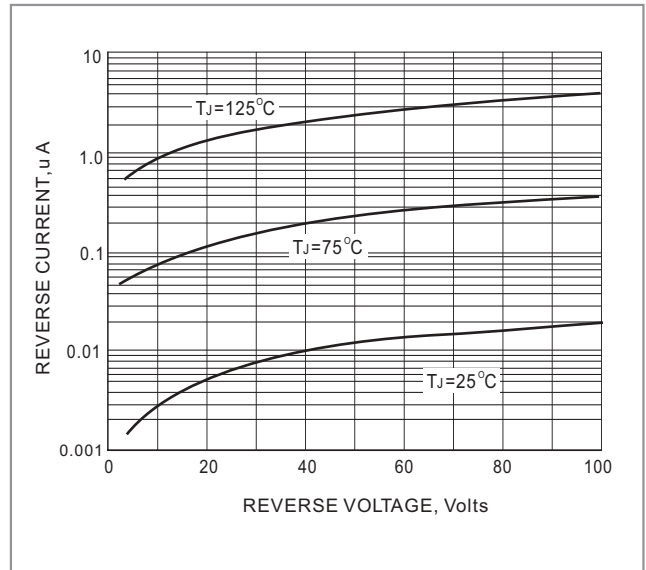


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

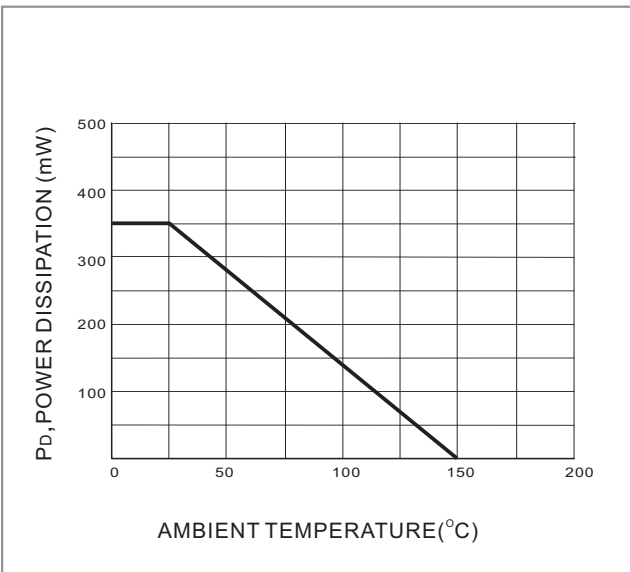
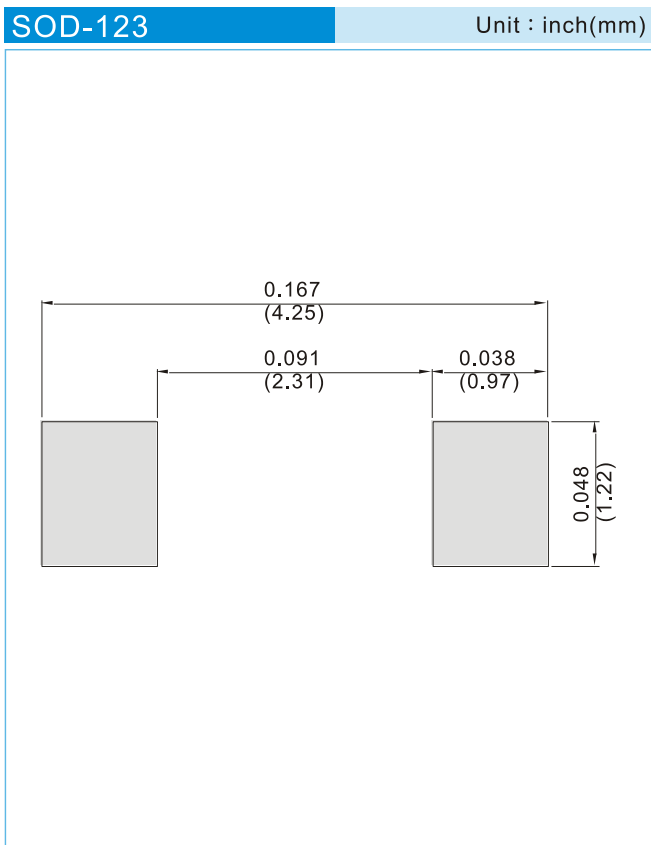


FIG. 3 POWER DERATING CURVE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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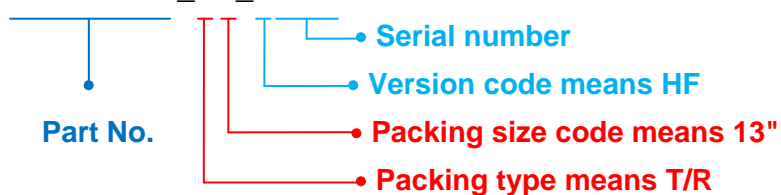
Part No_packing code_Version

BAV16W_R1_00001

BAV16W_R2_00001

For example :

RB500V-40_R2_00001



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



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