



BAV3004W

HIGH VOLTAGE SURFACE MOUNT SWITCHING DIODE

VOLTAGE 350 Volt **POWER** 410 mWatt **SOD-123** Unit: inch (mm)

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- High Reverse Breakdown Voltage Rating
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

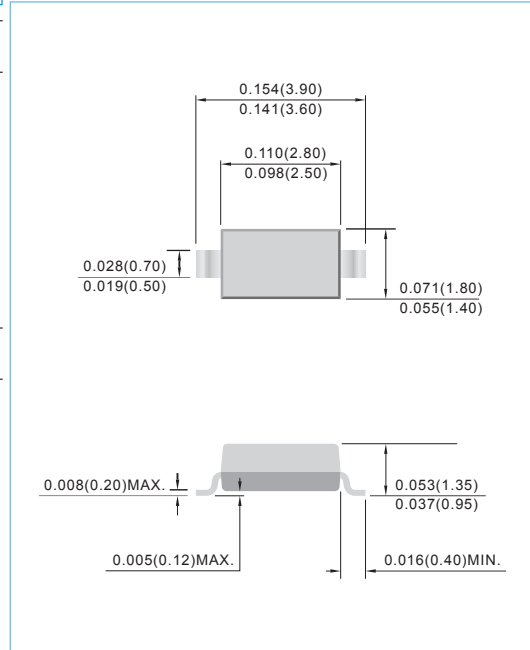
MECHANICAL DATA

Case: SOD-123, Plastic

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

Approx. Weight: 0.0103 grams

Marking: 34W



MAXIMUM RATINGS(T_A=25°C, unless otherwise specified)

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	350	V
RMS Reverse Voltage	V _{R(RMS)}	240	V
Forward Continuous Current (Note 1)	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @ t=1.0μs @ t=1.0s	I _{FSM}	4.0 1.0	A
Power Dissipation (Note 1)	P _d	410	mW
Thermal Resistance Junction to Ambient Air (Note 1)	R _{ΘJA}	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 150	°C

Notes : 1. Part mounted on FR-4 board with recommended pad layout.



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ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified, per element)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage (Note 2)	V _{BR}	350	-	-	V	I _R =150μA
Forward Voltage (Note 2)	V _F	-	0.78 0.93 1.03	0.87 1.0 1.25	V	I _F =20mA I _F =100mA I _F =200mA
Reverse Current (Note 2)	I _R	-	30 35	100 100	nA μA	V _R =240V V _R =240V, T _J =150 °C
Total Capacitance	C _T	-	1.0	5.0	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	t _{rr}	-	-	50	ns	I _F =I _R =30mA I _{rr} =3.0mA, R _L =100Ω

Notes : 2. Short duration test pulse used to minimize self-heating effect



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ELECTRICAL CHARACTERISTICS CURVES

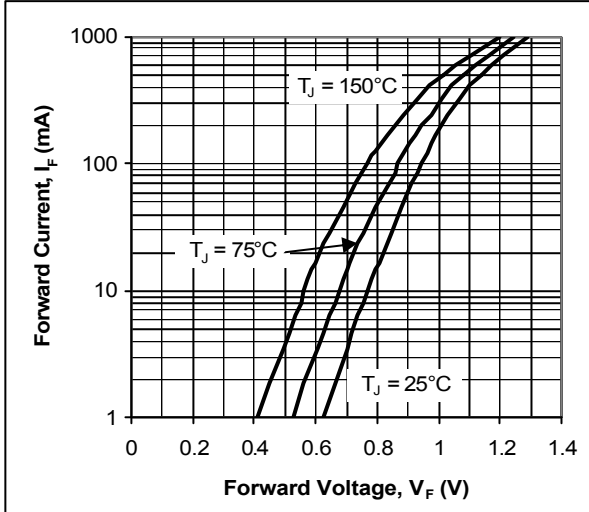


Fig. 1. Typical Forward

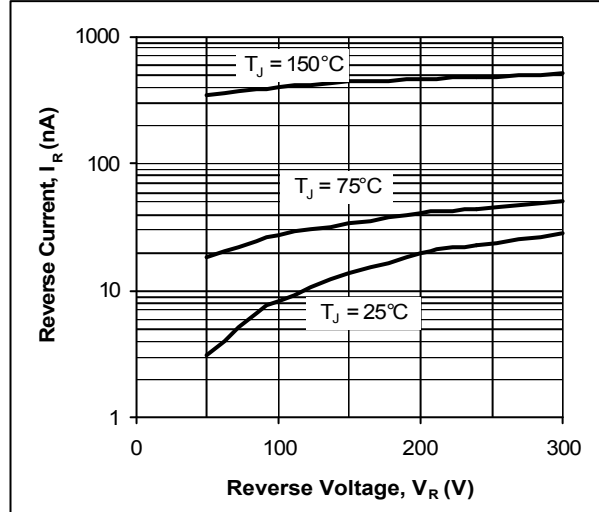


Fig. 2. Typical Reverse

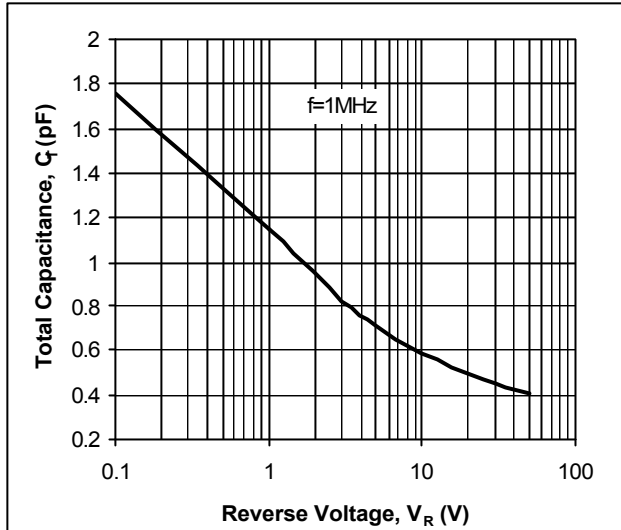
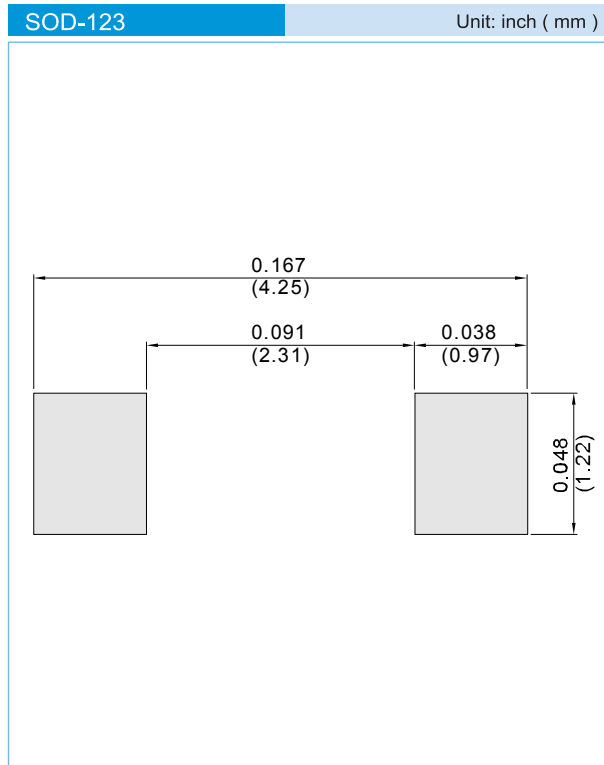


Fig. 3. Typical Capacitance



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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

BAV3004W_R1_00001

BAV3004W_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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