BAV25WS

Silicon Epitaxial Planar Diode

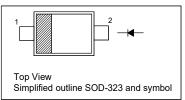
High Voltage Switching Diode

Features

- · Fast switching speed
- Surface mount package ideally suited for automatic insertion

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	250	V	
Reverse Voltage	V_R	200	V	
Average Rectified Forward Current	$I_{F(AV)}$	250	mA	
Forward Continuous Current		I _{FM}	400	mA
Repetitive Peak Forward Current tp ≤ 0.5 ms		I _{FRM}	1	Α
Non-Repetitive Peak Forward Surge Current	at t = 100 µs at t = 1 ms at t = 10 ms at t = 1 s	I _{FSM}	3 2.3 1.7 0.5	А
Power Dissipation		P_D	200	mW
Operating Junction and Storage Temperature Range		T_{j},T_{stg}	- 65 to + 150	°C

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance from Junction to Ambient 1)	$R_{ hetaJA}$	625	°C/W

¹⁾ Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.



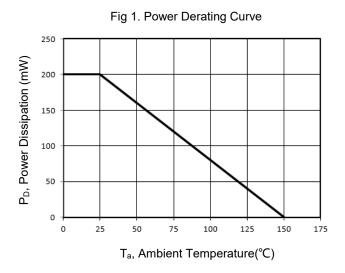
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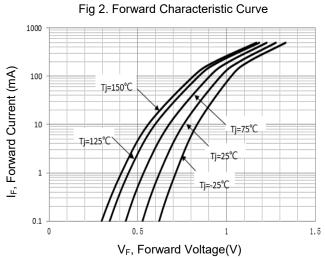
Characteristics at T_a = 25 °C

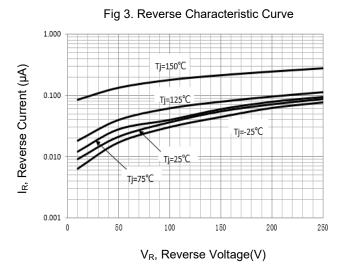
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	250	-	V
Reverse Current at $V_R = 200 \text{ V}$	I _R	-	100	nA
Forward Voltage at I _F = 100 mA at I _F = 200 mA	V _F		1 1.25	V
Total Capacitance at $V_R = 0 V$, $f = 1 MHz$	C _T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30$ mA, $I_{RR} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	50	ns

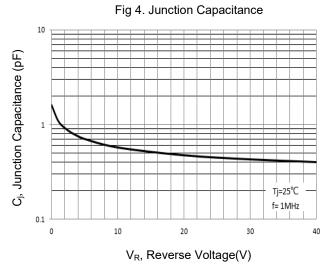


Electrical Characteristic Curve





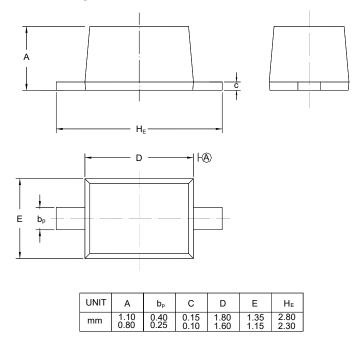




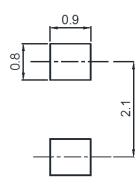
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



Recommended Soldering Footprint



Packing information

Tape Width		Pitch		Reel Size		Per Reel Packing Quantity
Package (mm)	(mm)	mm	inch	mm	inch	rei Reel Facking Quantity
SOD-323	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" WO " = Part No.

" III " = Cathode line

Font type: Arial



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