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BAS21VM

SOD-323 Fast Swithing Diodes

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FEATURES

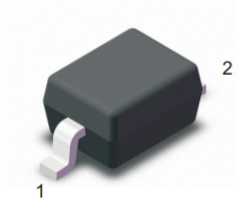
- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026



Top View
Simplified outline SOD-323 and symbol

Absolute Maximum Ratings at 25 °C

Parameter	Symbols	BAS21VM	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Maximum RMS voltage	V_{RMS}	200	V
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-reptitive Peak Forward Surge Current at 1s at 1ms at 1 us	I_{FSM}	1 3 9	A
Total Power Dissipation	P_{tot}	500	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

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Characteristics at T_a = 25 °C

Parameter	Symbols	BAS21VM	Units
Reverse BreakdownVoltage at I_R=100μA	$V_{(BR)R}$	250	V
Maximum Forward Voltage at 100 m A at 200 m A	V_F	1.00 1.25	V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a =150 °C	I_R	0.1 100	μA
Typical Junction Capacitance at V_R=4V, f=1MHz	C_j	5	pF
Maximum Reverse Recovery Time	t_{rr}	50	ns

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Fig.1 Forward Current Derating Curve

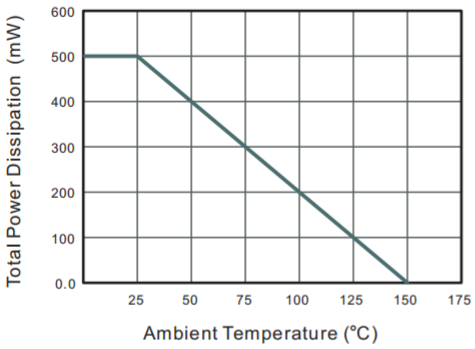


Fig.2 Typical Reverse Characteristics

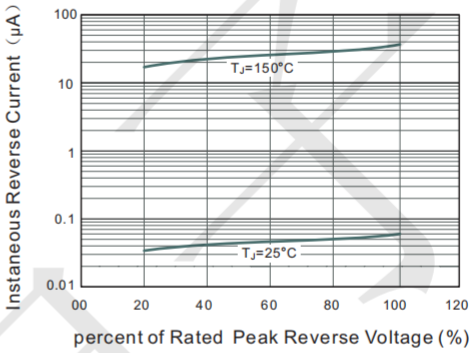


Fig.3 Typical Instaneous Forward Characteristics

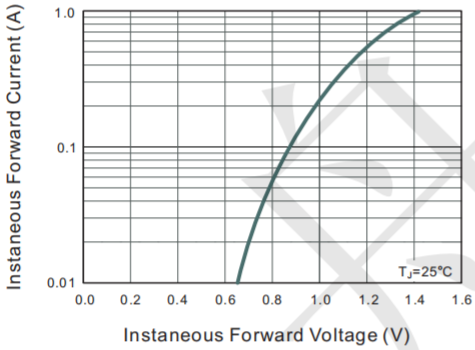
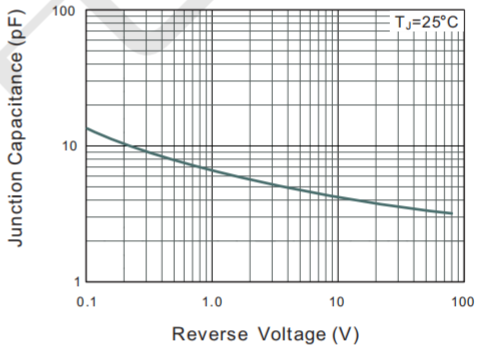


Fig.4 Typical Junction Capacitance



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Package informantion (Unit: mm)

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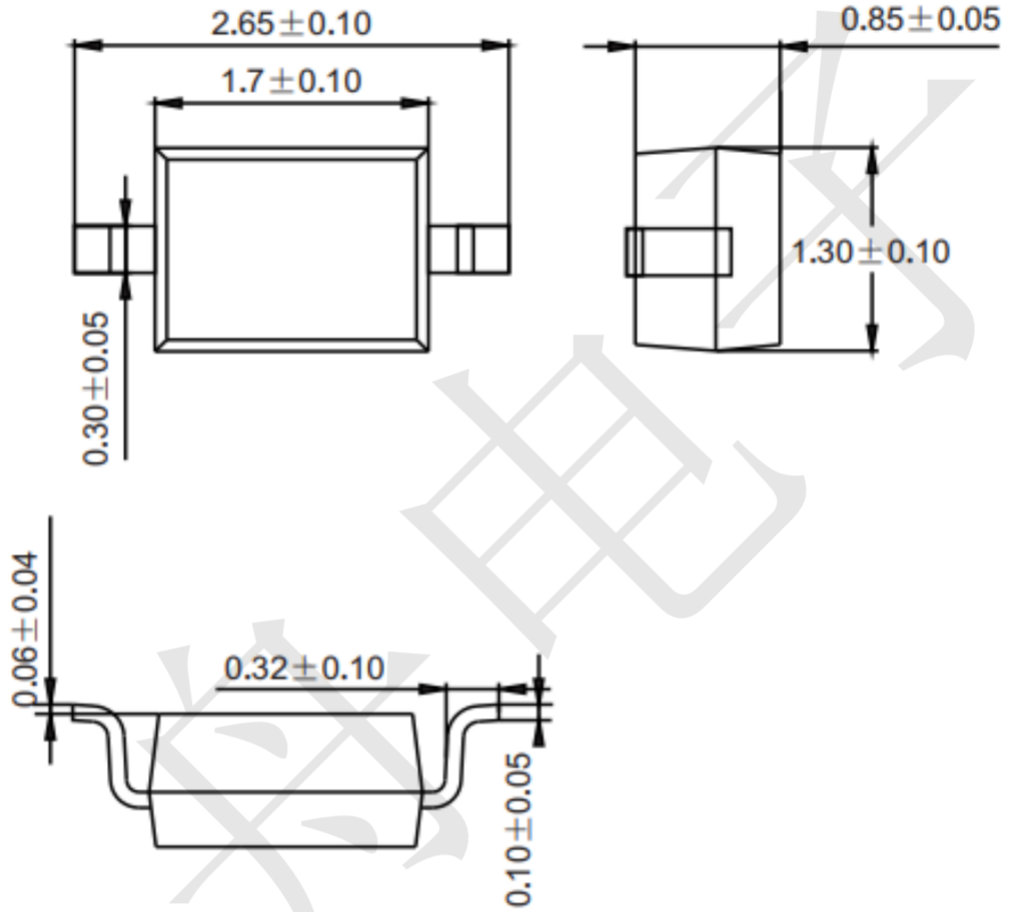

Mounting Pad Layout (Unit: mm)