



BAV170Q

ò means AEC-Q101 qualified

Applications

- Low-leakage current applications
- Automotive

Mechanical Data

- Case: SOT-23
- Terminals: Tin plated leads, solderable per JESD22-B102

Maximum Rating, (T_A = 25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Repetitive peak reverse voltage	V _{RRM}	V	100
Average Forward Current	I _{AV}	mA	215
Non-Repetitive Peak Forward Surge Current	I _{FSM}	tp ≤ 1ms	4
Power Dissipation	P _D	mW	250
Thermal Resistance from Junction to Ambient	R _{JA}	°C/W	500
Operation Junction Temperature	T _J		-55 to +150
Storage Temperature	T _{STG}		-55 to +150



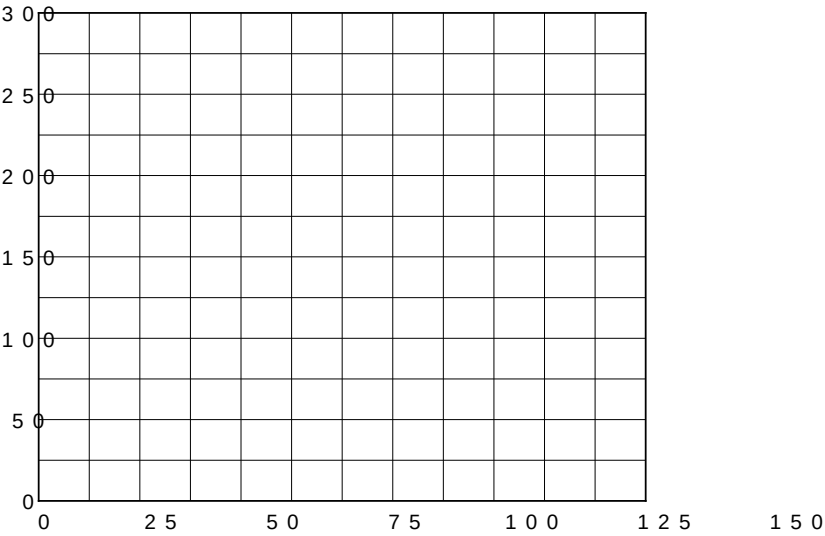
BAV170Q

Electrical Characteristics $T_a = 25^\circ\text{C}$ Unless otherwise specified, Per L

Item	Symbol	Unit	Conditions	Min	Typ	Max
Reverse Voltage	V_R	V	$I_R = 100\mu\text{A}$	100		
Forward Voltage	V_F	V	$I_F = 1\text{mA}$			0.9
			$I_F = 10\text{mA}$			1
			$I_F = 50\text{mA}$			1.1
			$I_F = 150\text{mA}$			1.25
Reverse Current	I_R	nA	$V_R = 5\text{V}$			5
Total Capacitance	C_J	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$			
Reverse Recovery Time	t_{rr}	us	$I_F = 10\text{mA}, I_R = 0, V_R = 5\text{V}$			3

Ordering Information (Example)

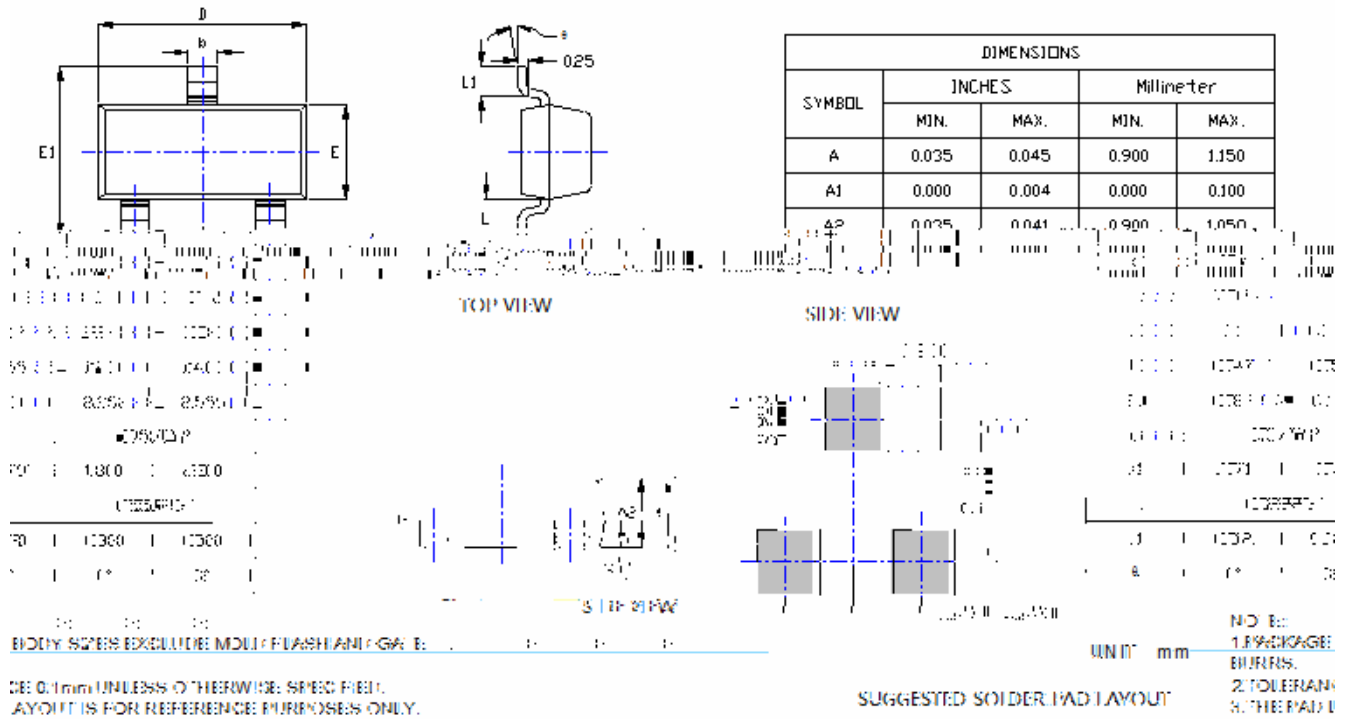
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV170Q	F2	Approximate	0.01	3	1140	#A





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ySOT-23 Package Outline Dimensions



yMarking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black



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Disclaimer

The information presented is in final form. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice to the products or otherwise.

The product is designed to be used in a limited range of applications. It is not intended for use in life-sustaining or safety-critical applications. The user must read the user manual and follow the instructions for proper use of the product.

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