

Micro Commercial Components



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BAV300 THRU BAV303

Features

- Saving Space
- Silicon Epitaxial Planar Diodes
- Hermetic Sealed Parts
- Fits onto SOD-323/SOT-23 footprints
- Electrical data identical with the devices BAV100...BAV103
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

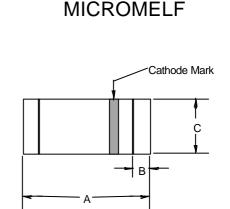
Continuous Reverse			
Voltage BAV300		50V	
BAV301	V_R	100V	T _A =25°C
BAV302		150V	
BAV303		200V	
Repetitive Peak Reverse			
Voltage BAV300		60V	
BAV301	V_{RRM}	120V	T _A =25°C
BAV302		200V	
BAV303		250V	
Forward DC Current	I _F	250mA	T _A =25°C
Repetitive Peak Forward Current	I _{FRM}	625mA	f=50Hz, T _A =25℃
Surge Forward Current	I _{FSM}	1.0A	T _P =1s, T _j =25°C
Thermal Resistance Junction to Ambient	R_{thJA}	500K/W	Note 2
Junction temperature	Tj	175℃	
Storage temperature Range	T _{stg}	-65 to + 175°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

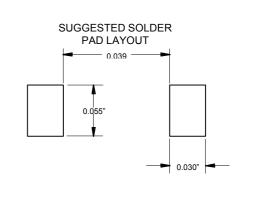
Maximum Forward Voltage	V_{F}	1.00V	$I_F = 100 \text{mA} , T_A = 25 ^{\circ}\text{C}$
Maximum Leakage current BAV300 BAV300 BAV301 BAV301 BAV302 BAV302 BAV303 BAV303 Maximum Leakage current BAV300 BAV301 BAV301 BAV301 BAV302	I _R	100nA 15 μ A 100nA 15 μ A 100nA 15 μ A 100nA 15 μ A 60V 120V 200V	$\begin{array}{c} V_R{=}50V \\ V_R{=}50V, Tj{=}100^{\circ}C \\ V_R{=}100V \\ V_R{=}100V, Tj{=}100^{\circ}C \\ V_R{=}150V, Tj{=}100^{\circ}C \\ V_R{=}200V, Tj{=}100^{\circ}C \\ V_R{=}200V, Tj{=}100^{\circ}C \\ \end{array}$ $\begin{array}{c} I_R{=}100~\mu~A, tP/T{=}0.01, \\ tP{=}0.3ms \end{array}$
BAV303 Diode Capacitance	C _D	250V 1.5pF	V _R =0V, f=1.0MHz
<u> </u>	0	- F	K - ,
Maximum Reverse recovery time	t _{rr}	50ns	I_F =10mA, I_R =30mA I_{rr} =3.0mA, R_L =100 Ω
Differential Forward Resistance	Γ _F	5.0 Ω	I _F =10mA

Notes:1.Lead in Glass Exemption Applied, see EU Directive Annex 5. 2.mounted on epoxy-glass hard tissue, Fig.4 35 μ m copper clad, 0.9 mm² copper area per electrode

Switching Diodes



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.079	1.8	2.0	
В	.004	.008	.10	.20	
С	.047	.051	1.20	1.30	Ø



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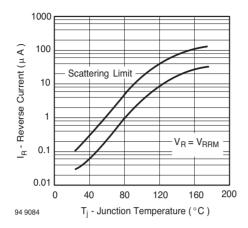


Fig. 1 Reverse Current vs. Junction Temperature

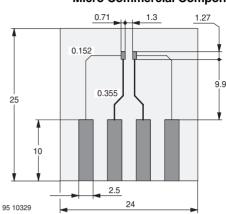


Fig. 4 Board for R_{thJA} definition (in mm)

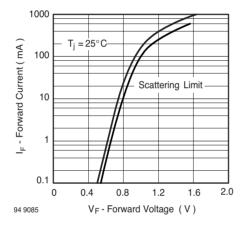


Fig. 2 Forward Current vs. Forward Voltage

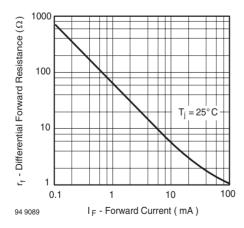


Fig. 3 Differential Forward Resistance vs. Forward Current



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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