



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 BAV301 BAV302 BAV303	V _R	50V 100V 150V 200V	T _A =25°C
Repetitive Peak Reverse Voltage	BAV300 BAV301 BAV302 BAV303	V _{RRM}	60V 120V 200V 250V	T _A =25°C
Forward DC Current	I _F	250mA		T _A =25°C
Repetitive Peak Forward Current	I _{FRM}	625mA		f=50Hz, T _A =25°C
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	T _j	175°C		
Storage temperature Range	T _{stg}	-65 to + 175°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

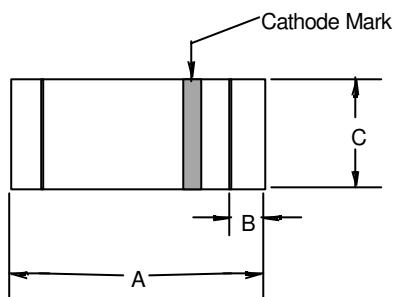
Maximum Forward Voltage	V _F	1.00V	I _F = 100mA, T _A =25°C
Maximum Leakage current	I _R	100nA 15 μ A 100nA 15 μ A 100nA 15 μ A 100nA 15 μ A	V _R =50V V _R =50V, T _j =100°C V _R =100V V _R =100V, T _j =100°C V _R =150V V _R =150V, T _j =100°C V _R =200V V _R =200V, T _j =100°C
Maximum Leakage current	V _(BR)	60V 120V 200V 250V	I _R =100 μ A, t _{P/T} =0.01, t _P =0.3ms
Diode Capacitance	C _D	1.5pF	V _R =0V, f=1.0MHz
Maximum Reverse recovery time	t _{rr}	50ns	I _F =10mA, I _R =30mA I _{rr} =3.0mA, R _L =100Ω
Differential Forward Resistance	r _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

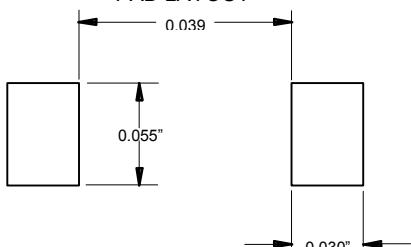
Switching Diodes

MICROMELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.079	1.8	2.0	
B	.004	.008	.10	.20	
C	.047	.051	1.20	1.30	Ø

SUGGESTED SOLDER PAD LAYOUT



BAV300 THRU BAV303

•M•C•C•

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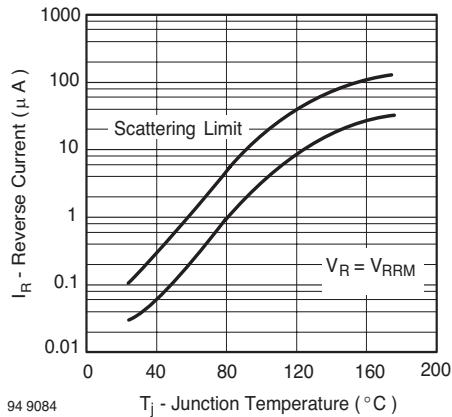


Fig. 1 Reverse Current vs. Junction Temperature

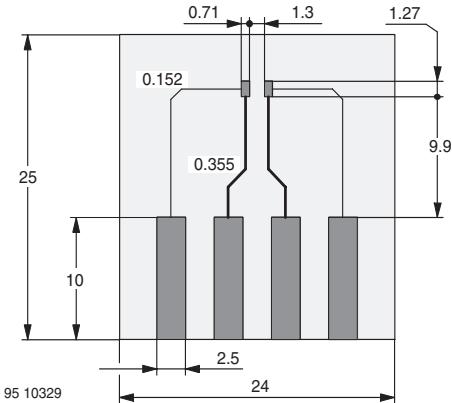


Fig. 4 Board for R_{thJA} definition (in mm)

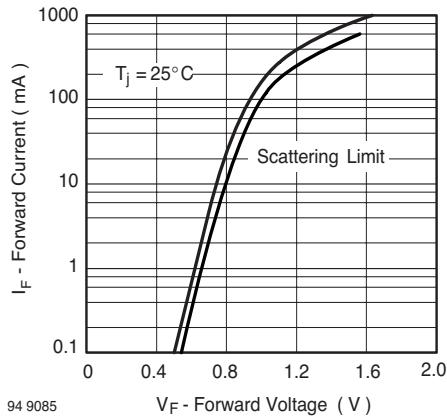


Fig. 2 Forward Current vs. Forward Voltage

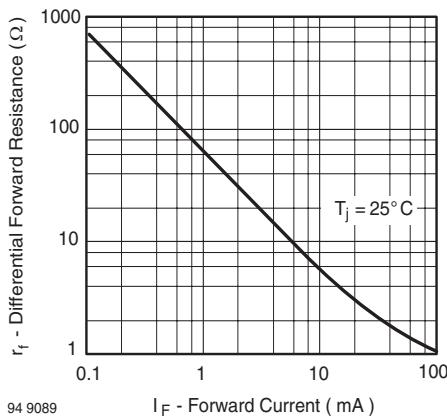


Fig. 3 Differential Forward Resistance vs. Forward Current

TM

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Ordering Information :

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

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