



Micro Commercial Components



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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Moisture Sensitivity Level 1
- Silicon Epitaxial Planar Diodes
- These diodes are also available in other case styles including: the DO-35 case with the type designations BAV19 to BAV21, the SOD-123 case with the type designations BAV19W to BAV21W, the SOT-23 case with the type designations BAS19 to BAS21, and the SOD-323 case with type designations BAV19WS to BAV21WS.

Maximum Ratinos

Maximammatings					
Continuous Reverse Voltage BAV100 BAV101 BAV102 BAV103	V _R	50V 100V 150V 200V	T _A =25 ⁰ C		
Repetitive Peak Reverse Voltage BAV100		60V			
BAV101 BAV102 BAV103	V _{RRM}	120V 200V 250V	T _A =25 ^o C		
Forward DC Current	IF	250mA	$T_A = 25^{\circ}C^{(1)}$		
Rectified Current (Average) Half Wave Rectification with Resist. Load	I _(FAV)	200mA	f>50Hz, T _A =25 ^o C		
Repetitive Peak Forward Current	I _{FRM}	625mA	f>50Hz, T _A =25 ^o C ⁽¹⁾		
Surge Forward Current	I _{FSM}	1.0A	T<1s, Tj =25 ⁰ C		
Power Dissipation	P _{TOT}	400mW	T _A =25 ^o C		
Thermal Resistance Junction to Ambient Air ⁽²⁾	T _A	375 ⁰ C/W			
Operating and Stora ge temperature Range	T_{S}, T_{STG}	-55 to +150 ⁰ C			

Note: (1) Valid provided that electrodes are kept at ambient temperature Electrical Characteristics @ 25°C Unless Otherwise Specified

Electrical characteristics @ 25°C offiess otherwise specified					
Maximum Forward Voltage I _F = 100mA I _F = 200mA	$V_{\rm F}$	1.00V 1.25V	T _A =25 ^o C		
Maximum Leakage current					
BAV100		100nA	V _R =50V		
BAV100		15µA	V _R =50V, Tj=100 ⁰ C		
BAV101		100nA	V _R =100V		
BAV101	R	15µA	V _R =100V, Tj=100 ⁰ C		
BAV102		100nA	V _R =150V		
BAV102		15µA	V _R =150V, Tj=100 ⁰ C		
BAV103		100nA	V _R =200V		
BAV103		15µA	V _R =200V, Tj=100 ⁰ C		
Typital Capacitance	C _{TOT}	1.5pF	V _R =0V, f=1.0MHz		
Maximum Reverse recovery			l⊧=30mA, k=30mA		
time	t _{rr}	50ns	I _{rr} =3.0mA,		
			R _i =100 OHM		
Typical Dynamic Forward	D		I = 10 mA		
Resistance	R_{F}	5.0 OHM	l _F =10mA		

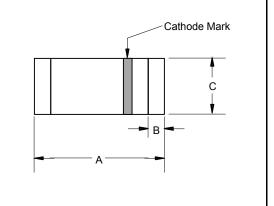
Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

2. Valid provided that electrodes are kept at ambient temperature

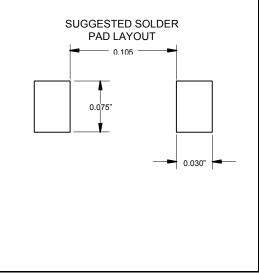
BAV100 THRU **BAV103**

Small Signal Diodes

MINIMELF(SOD-80C)



DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
А	.130	.146	3.30	3.70	
В	.008	.016	0.20	0.40	
С	.055	.059	1.40	1.50	

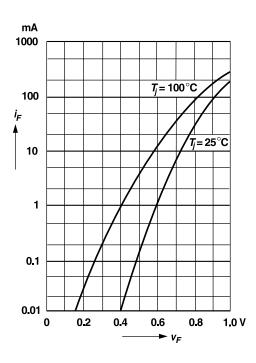


BAV100 thru BAV103

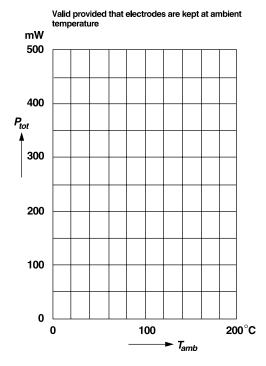


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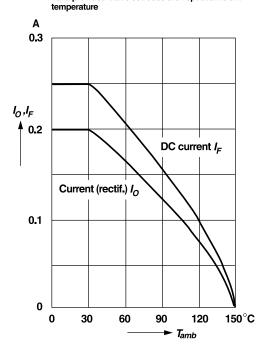
Forward characteristics



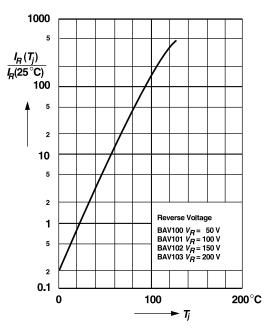
Admissible power dissipation versus ambient temperature



Admissible forward current versus ambient temperature Valid provided that electrodes are kept at ambient



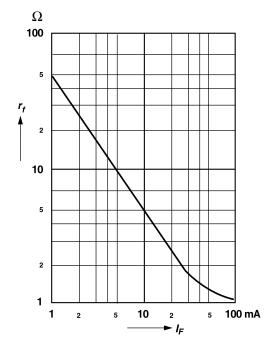
Leakage current versus junction temperature



BAV100 thru BAV103

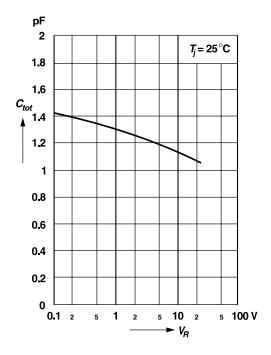


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Dynamic forward resistance versus forward current

Capacitance versus reverse voltage





Ordering Information :

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

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