

Micro Commercial Components

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Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) For general purpose
- 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

Maximum Ratings

Continuous Reverse Voltage BAV100 BAV101 BAV102 BAV103	V _R	50V 100V 150V 200V	T _A =25 ^o C
Repetitive Peak Reverse Voltage BAV100 BAV101 BAV102 BAV103	V_{RRM}	60V 120V 200V 250V	T _A =25 ^o C
Forward DC Current	I _F	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°C
Power Dissipation	P _{TOT}	400mW	T _A =25 ^o C
Thermal Resistance Junction to Ambient Air ⁽²⁾	T _A	375°C/W	
Operating and Stora ge temperature Range	T _S , T _{STG}	-55 to +150 ^o C	

Note: (1) Valid provided that electrodes are kept at ambient temperature

Electrical Characteristics @ 25°C Unless Otherwise Specified

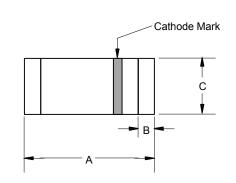
Maximum Forward Voltage $I_F = 100 \text{mA}$ $I_F = 200 \text{mA}$	V_{F}	1.00V 1.25V	T _A =25 ^o C
Maximum Leakage current			
BAV100		100nA	V _R =50V
BAV100		15uA	V _R =50V, Tj=100 ^O C
BAV101		100nA	V _R =100V
BAV101	I_R	15uA	V _R =100V, Tj=100 ^O C
BAV102		100nA	V _R =150V
BAV102		15uA	V _R =150V, Tj=100 ^O C
BAV103		100nA	$V_R=200V$
BAV103		15uA	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 _L =100 OHM
Typical Dynamic Forward	R₅	5.0 OHM	I _F =10mA
Resistance	i Æ	J.U OI IIVI	11-10111A

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

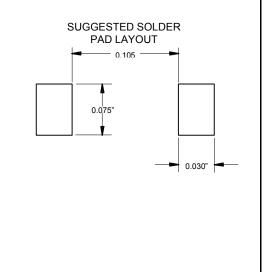
BAV100 THRU BAV103

Small Signal Diodes

MINIMELF(SOD-80C)



DIMENSION							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX			
Α	.134	.142	3.40	3.60			
В	.008	.016	0.20	0.40			
С	.055	.059	1.40	1.50			



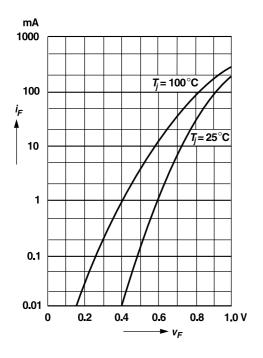
^{2.} Valid provided that electrodes are kept at ambient temperature

BAV100 thru BAV103



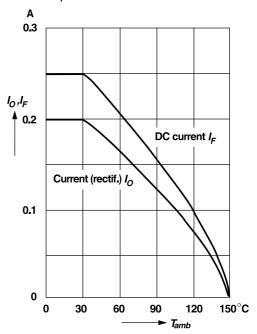
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Forward characteristics

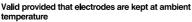


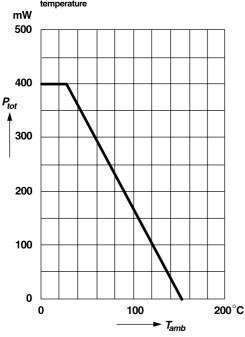
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

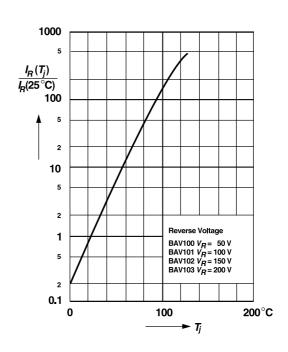


Admissible power dissipation versus ambient temperature





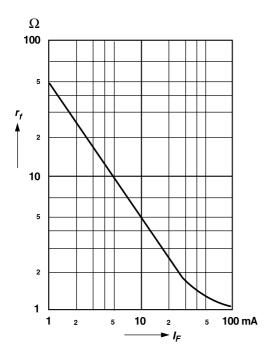
Leakage current versus junction temperature



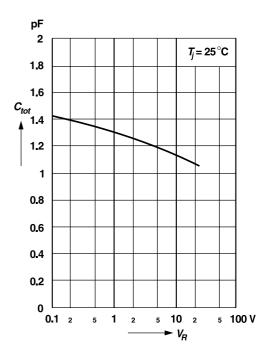
BAV100 thru BAV103



Dynamic forward resistance versus forward current



Capacitance versus reverse voltage





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Ordering Information

Device Packing		
(Part Number)-TP	Tape&Reel2.5Kpcs/Reel	

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