



Micro Commercial Components



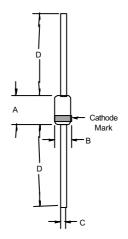
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

BAV19 THRU BAV21

500mW Small Signal Diodes 120 to 250 Volts

DO-35 GLASS



DIMENSIONS						
	INCHES	MM				
DIM	MIN	MAX	MIN	MAX	NOTE	
Α		.166		4.2		
В		.079		2.00		
С		.020		.52		
D	1.000		25.40			

Features

- Silicon Epitaxial Planar Diodes
- For General Purpose
- This diode is also available in other case.
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Mechanical Data

Case: DO-35 Glass CaseWeight: approx. 0.13g

Marking: Cathode band and type number

Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating		Rating	Unit
	Continuous Reverse Voltage	BAV19	100	
V_R		BAV20	150	V
		BAV21	200	
	Repetitive Peak Reverse Voltage	BAV19	120	
V_{RRM}		BAV20	200	V
		BAV21	250	
l _F	Forward DC Current at Tamb=25°C(1)		250	mA
	Rectified Current (Average) Half	Wave		
I _{F(AV)}	Rectification with Resist. Load at		200	mA
	Tamb=25 ^o C ⁽¹⁾			
I _{FRM}	Repetitive Peak Forward Current at		625	mA
	f>50Hz, Tamb=25 ^o C ⁽¹⁾			
I _{FSM}	Surge Forward Current at t<1s, Tj=25°C		1.0	Α
P _{tot}	Power Dissipation at Tamb=25°C(2)		500	mW
T_J	Junction Temperature		-55 to +150	$^{\circ}$
T _{STG}	Storage Temperature		-55 to +150	$^{\circ}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units
V_{F}	Forward Voltage	(I _F =100mA)			1.00	V
		(I _F =200mA)			1.25	V
I_R	Leakage Current					
	(V _R =100V)	BAV19			100	nA
	(VR=100V, Tj=100°C)	BAV19			15	μΑ
	(V _R =150V)	BAV20			100	nA
	(VR=150V, Tj=100°C)	BAV20			15	μΑ
	(V _R =200V)	BAV21			100	nA
	(VR=200V, Tj=100°C)	BAV21			15	μΑ
r _f	Dynamic Forward Resistance (‡=10mA)			5.0		OHM
C _{tot}	Capacitance (V _R =0, f=1.0MHz)			1.5		pF
t _{rr}	Reverse Recovery Time (½=30mA, I _R =30mA) (Irr=3.0mA, R ₂ =100OHMS)				50	ns

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

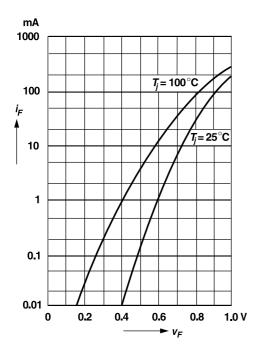
Valid provided that leads are kept at ambient temperature at a distance of 8mm from case

BAV19 thru BAV21



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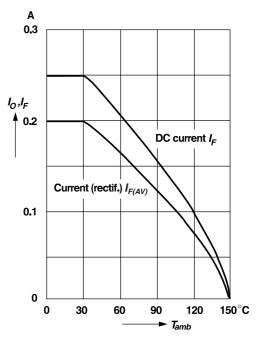
Forward characteristics



versus ambient temperature

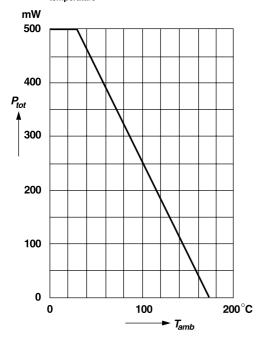
Admissible forward current

Valid provided that electrodes are kept at ambient temperature

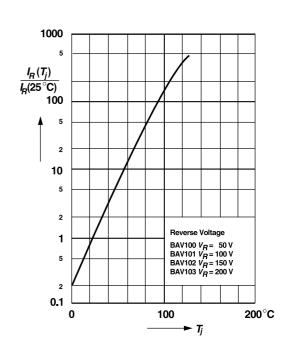


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient



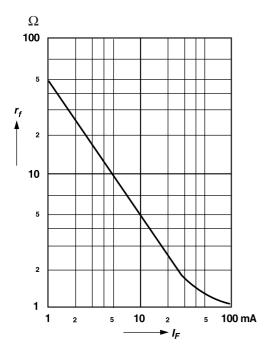
Leakage current versus junction temperature



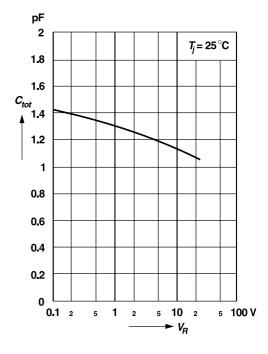
BAV19 thru BAV21



Dynamic forward resistance versus forward current



Capacitance versus reverse voltage





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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