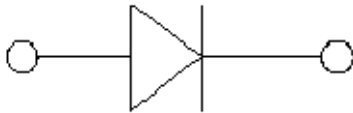


**BAV19WS THRU BAV21WS****Small-Signal Switching Diodes****Features**

- VR 100V/150V/200V
- I<sub>FAV</sub> 200mA

**Typical Applications**

- Extreme fast switches

**Mechanical Data**

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

	Marking
BAV19WS	A8
BAV20WS	T2
BAV21WS	T3

**■Maximum Ratings (Ta=25°C Unless otherwise specified)**

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Repetitive peak reverse voltage	V <sub>RRM</sub>	V		BAV19WS	120
				BAV20WS	200
				BAV21WS	250
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	mA	t=1s	500	
Average forward current	I <sub>FAV</sub>	mA		200	
Power dissipation	P <sub>tot</sub>	mW		250	
Maximum junction temperature	T <sub>j</sub>	°C		-65 to +150	
Storage temperature range	T <sub>stg</sub>	°C		-65 to +150	

**■Electrical Characteristics (Ta=25°C Unless otherwise specified)**

PARAMETER	SYMBOL	UNIT	Conditions		VALUE
Maximum Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =100mA		1.0
			I <sub>F</sub> =200mA		1.25
Maximum Reverse current	I <sub>R</sub>	nA	BAV19WS	VR=100V	100
			BAV20WS	VR=150V	
			BAV21WS	VR=200V	
Minimum Breakdown voltage	V <sub>(BR)</sub>	V	BAV19WS	I <sub>R</sub> =10uA	100
			BAV20WS	I <sub>R</sub> =10uA	150
			BAV21WS	I <sub>R</sub> =10uA	200
Maximum Diode capacitance	C <sub>D</sub>	pF	V <sub>R</sub> =0V, f=1MHz		5
Maximum Reverse recovery time	t <sub>rr</sub>	ns	IF=IR=30 mA, RL=100 Ω, IRR=3mA		50



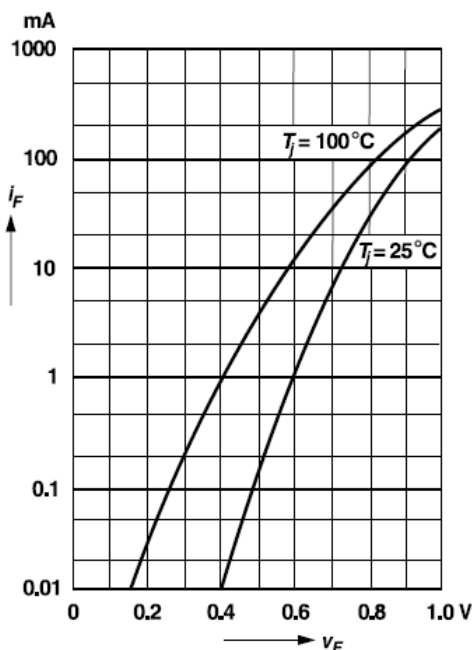
## BAV19WS THRU BAV21WS

### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV19WS Thru BAV21WS	F2	Approximate 0.004	3000	30000	120000	7" reel

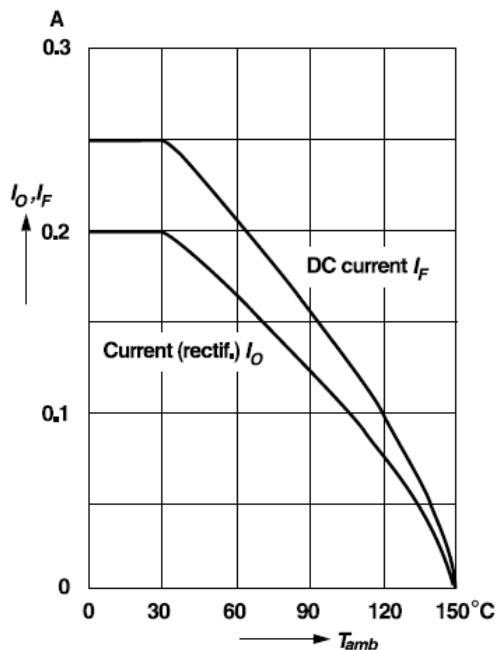
### ■ Characteristics(Typical)

Forward characteristics



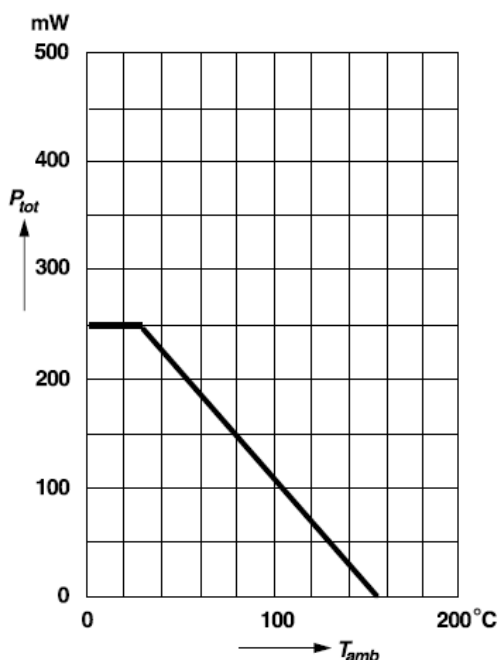
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

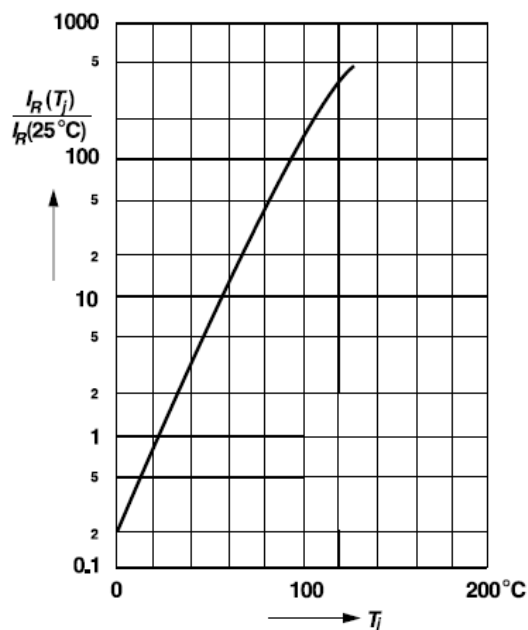


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature



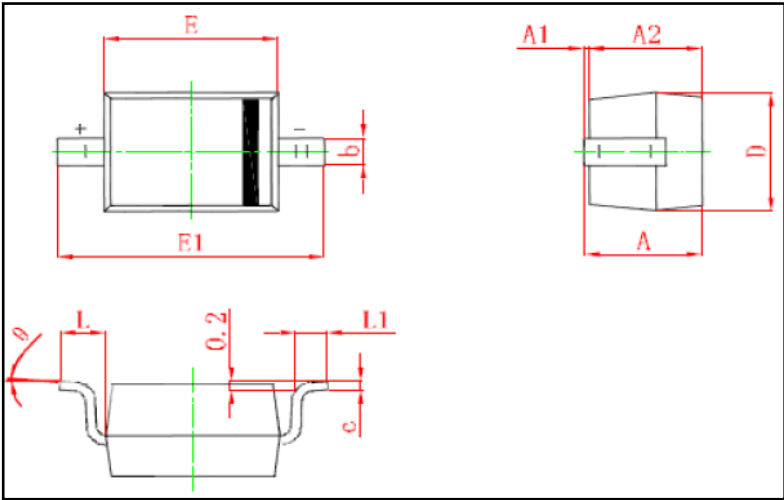
Leakage current versus junction temperature





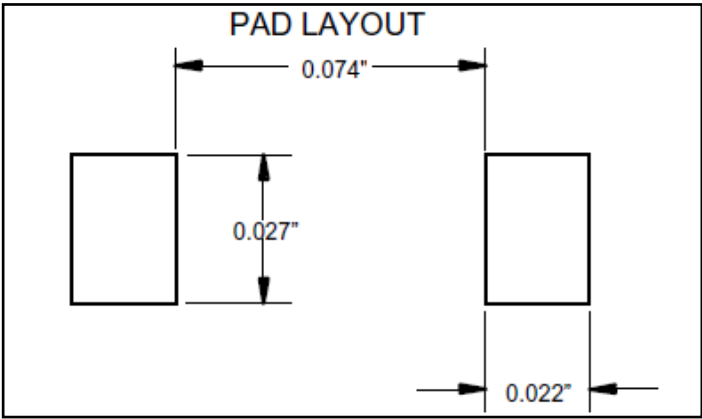
## BAV19WS THRU BAV21WS

### ■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
$\theta$	0°	8°

### ■ Soldering Footprint



Unit: inches



## BAV19WS THRU BAV21WS

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