

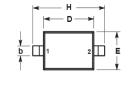
BAV19WS-BAV21WS

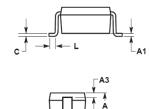
SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

DEVICE	MARKING
BAV19WS	A8
BAV20WS	T2
BAV21WS	Т3





SOD-323				
Dim.	Min.	Max.		
Α	0.80	1.10		
A1	0.00	0.10		
A3	0.15 REF			
В	0.25	0.40		
С	0.10	0.15		
D	1.60	1.80		
E	1.15	1.35		
L	0.20	0.50		
Н	2.30	2.80		
Dimensions in millimeter				

Maximum Ratings @ T_A = 25°C unless otherwise specified

Symbol	Parameter	Value			
	Parameter	BAV19WS	BAV20WS	BAV21WS	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	120 200		250	V
V_{RRM}	Peak Repetitive Reverse Voltage	100 150 2		200	
V _{RWM}	Working Peak Reverse Voltage	100	150	200	V
V _{R(RMS)}	RMS Reverse Voltage	71	106	141	V
Io	Average Rectified Output Current	200			mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0		Α	
P _D	Power Dissipation	250		mW	
R _{⊖JA}	Thermal Resistance from Junction to Ambient	500		°C/W	
T _j	Junction Temperature	150		$^{\circ}$	
T _{stg}	Storage Temperature	-55~+150		$^{\circ}$	

Electrical Characteristics @ TA = 25°C unless otherwise specified

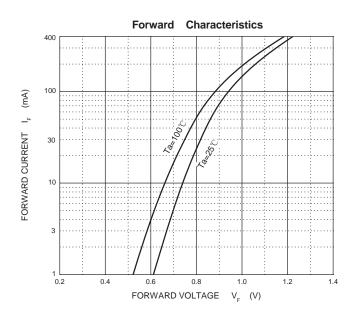
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse current	I _R	V _R =100V	BAV19WS			0.1	uA
		V _R =150V	BAV20WS			0.1	
		V _R =200V	BAV21WS			0.1	
Forward voltage	V _F	I _F =100mA				1	V
		I _F =200mA				1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz				5	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1 * I_R, R_L = 100 \Omega$				50	nS

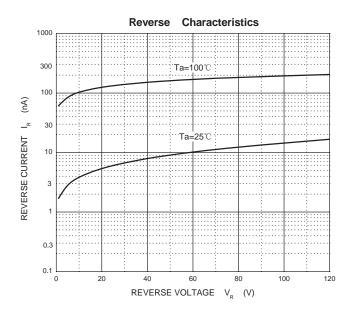


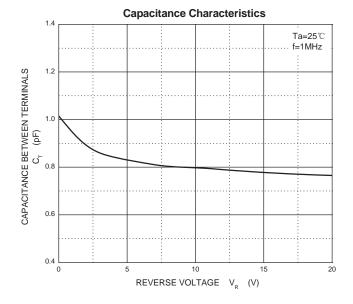
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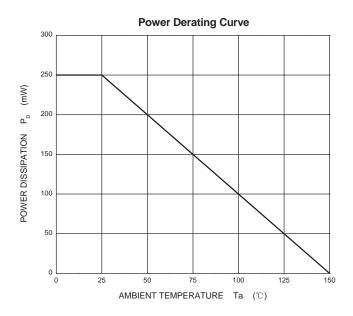
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TYPICAL TRANSIENT CHARACTERISTICS









http://www.hc-semi.com



BAV19WS-BAV21WS

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