

**BAV19WS/BAV20WS/BAV21WS**

FAST SWITCHING DIODES

SOD-323

**FEATURES**

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

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

Parameter Symbol		BAV19WS B	AV20WS B	AV21WS	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	120	200	250	V
Peak Repetitive Peak reverse voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	100	150	250	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Forward Continuous Current	I _{FM}	400			mA
Average Rectified Output Current	I _O	200			mA
Peak forward surge current @=1.0ms @=1.0s	I _{FSM}	2.5 0.5			A
Repetitive Peak Forward Current	I _{FRM}	625			mA
Power Dissipation	P _d	250			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Storage temperature	T _{STG}	-65~+150			°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Min.	T	yp.	Max.	Unit	Conditions
Forward voltage	V _{F1}				1.0	V	I _F =0.1A
	V _{F2}				1.25		I _F =0.2A
Reverse current BAV19WS BAV20WS BAV21WS	I _R				0.1	μA	V _R =100V
					0.1		V _R =150V
					0.1		V _R =200V
Capacitance between terminals	C _T				5	pF	V _R =0V, f=1MHz
Reverse Recovery Time	t _{rr}				50	ns	I _F =I _R =30mA I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics **BAV19WS/BAV20WS/BAV21WS**
LI DE HENG ELECTRONICS

1N4148WS/BAV16WS

