



BAV19WS THRU BAV21WS

FAST SWITCHING DIODES

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications

MECHANICAL DATA

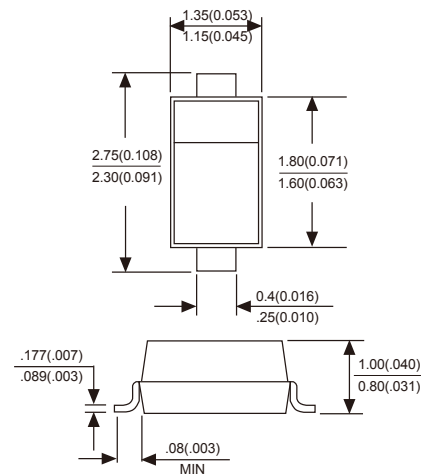
Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: BAV19WS:A8, BAV20WS:T2, BAV21WS:T3

SOD-323



Dimensions in millimeters and (inches)

Maximum ratings and electrical characteristics, Single diode @T_A=25°C

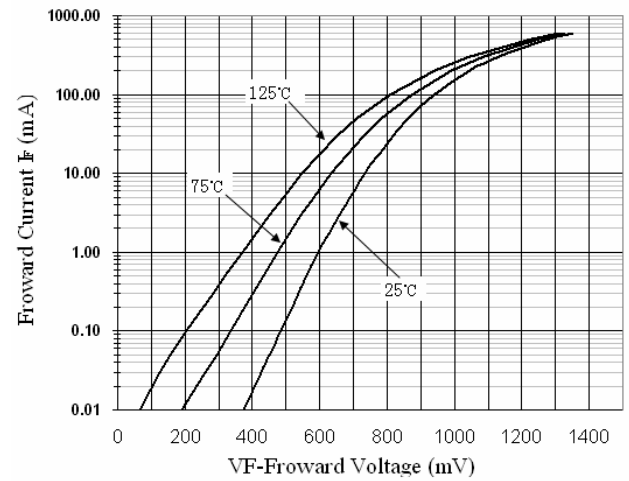
PARAMETER	SYMBOLS	BAV19WS	BAV20WS	BAV21WS	UNITS
Peak repetitive peak reverse voltage	V _{RRM}				
Working peak reverse voltage	V _{RWM}	100	150	200	V
DC Blocking voltage	V _R				
RMS Reverse voltage	V _{R(RMS)}	71	106	141	V
Forward continuous current	I _{FM}		400		mA
Average rectified output current	I _o		200		mA
Peak forward surge current @=1.0ms	I _{FSM}		4.0		A
@=1.0s			1.0		
Repetitive peak forward current	I _{FRM}		625		mA
Power dissipation	P _d		200		mW
Thermal resistance junction to ambient	R _{θJA}		500		K/W
Storage temperature	T _{STG}		-65 to +150		°C
Non-Repetitive peak reverse voltage	V _{RM}	120	200	250	V

Electrical ratings @T_A=25°C

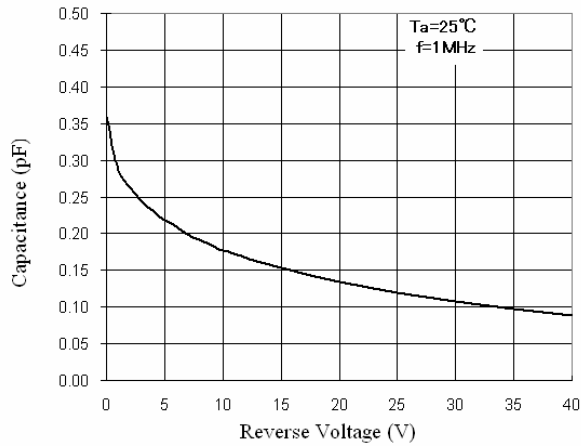
PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}			1.0	V	I _F =0.1A
	V _{F2}			1.25	V	I _F =0.2A
Reverse current	I _R			0.1	μA	V _R =100V
				0.1	μA	V _R =150V
				0.1	μA	V _R =200V
Capacitance between terminals	C _T			5	pF	V _R =0V, f=1.0MHz
Reverse recovery time	t _{rr}			50	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω



Forward Voltage vs Ambient Temperature



Total Capacitance



Reverse Current vs Reverse Voltage

