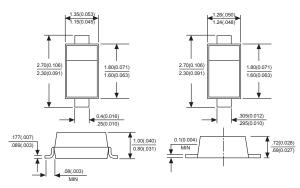


BAV16WS/IN4148WS

FAST SWITCHING DIODES

SOD-323



Dimensions in millimeters and (inches)

FEATURES

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

MECHANICAL DATA

Case: Molded plastic body

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

Method 2026

Polarity: Polarity symbols marked on case

Marking: T4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOLS	Limits	UNITS	
Peak repetitive peak reverse voltage	VRRM			
Working peak reverse voltage	VRWM	75	V	
DC Blocking voltage	VR			
RMS Reverse voltage	VR(RMS)	53	V	
Forward continuous current	lғм	300	mA	
Average rectified output current	lo	150	mA	
Peak forward current @=1.0*s	IFSM	2.0	А	
@=1.0s	IFSW	1.0		
Power dissipation	Pd	200	mW	
Thermal resistance junction to ambient	Roja	625	K/W	
Junction temperature	Tj	125	°C	
Storage temperature	Тѕтс	-65 to +150	°C	
Non-Repetitive peak reverse voltage	V _{RM}	100	V	

Electrical ratings @TA=25°C

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PARAMETER	SYMBOLS	Min.	Тур.	Max.	Unit	Conditions
Froward voltage	V _{F1}			0.715	V	I=1.0mA
· ·	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	l _{R1}			1	uA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	Ст			2	pF	V _R =0V,f=1.0MHz
Reverse recovery time	trr			4	ns	I _F =I _R =10mA
	Lrr					Irr=0.1XI _R ,R _L =100Ω

RATINGS AND CHARACTERISTIC CURVES BAV16WS/1N4148WS

