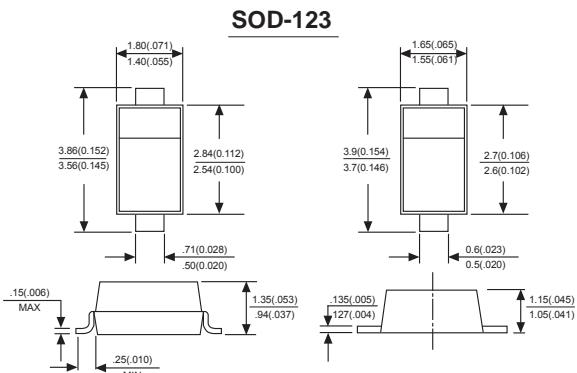


BAV16W/1N4148W

FAST SWITHING DIODES



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: T6, T4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @ $T_A=25^*$

PARAMETER	SYMBOLS	Limits			UNITS
Peak repetitive peak reverse voltage	V_{RRM}				V
Working peak	V_{RWM}	75			
DC Blocking voltage	V_R				
RMS Reverse voltage	$V_{R(RMS)}$	53			V
Forward continuous current	I_{FM}	300			mA
Average rectified output current	I_o	150			mA
Peak forward current @ $=1.0^*$ s @ $=1.0s$	I_{FSM}	2.0			A
		1.0			
Power dissipation	P_d	400			mW
Thermal resistance junction to ambient	$R_{\Theta JA}$	315			K/W
Junction temperature	T_j	125			*
Storage temperature	T_{STG}	-65 to +150			*
Non-Repetitive peak reverse voltage	V_{RM}	100			V

Electrical ratings @ $T_A=25^*$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Froward voltage	V_{F1}			0.715	V	$I_F=1.0mA$
	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	I_{R1}			1	uA	$V_R=75V$
	I_{R2}			25	nA	$V_R=20V$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1.0MHz$
Reverse recovery time	t_{rr}			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1X I_{R,L}=100^*$

RATINGS AND CHARACTERISTIC CURVES BAV16W/1N4148W

FIG. 1- FORWARD CHARACTERISTICS

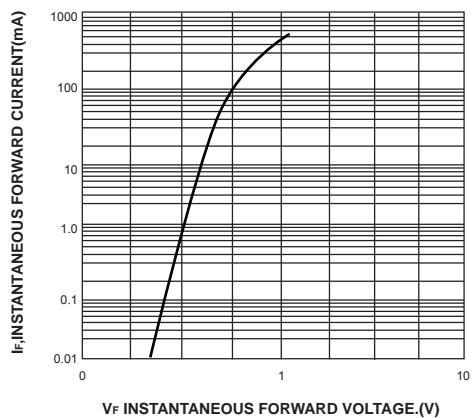


FIG. 2-LEAKAGE CURRENT VS JUNCTION TEMPERATURE

