FAST SWITHING DIODES

BAV16W/1N4148W

VOLTAGE RANGE **75 Volts**
CURRENT **1.0 Ampere**

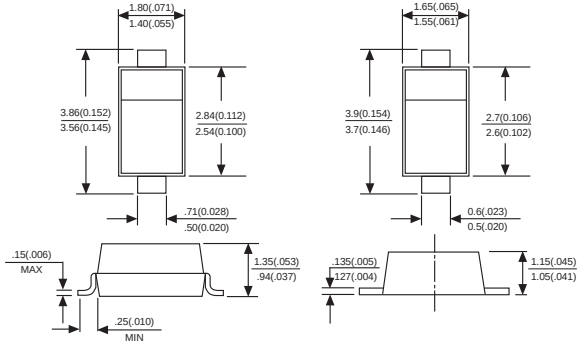
FEATURES

- 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

SOD-123



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Maximum ratings and electrical characteristics, Single diode @T_A=25℃

PARAMETER	SYMBOLS	Limits	UNITS
Peak repetitive peak reverse voltage Working peak DC Blocking voltage	V_{RRM} V_{RWM} V_R	75	V
RMS Reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	300	mA
Average rectified output current	Io	150	mA
Peak forward current @=1.0us @=1.0s	I_{FSM}	2.0 1.0	A
Power dissipation	Pd	400	mW
Thermal resistance junction to ambient	$R_{\Theta JA}$	315	K/W
Junction temperature	T_j	125	˚C
Storage temperature	T_{STG}	-65 to +150	˚C
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 Irr=0.1XI_R,R_L=100Ω

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FIG. 1- FORWARD CHARACTERISTICS

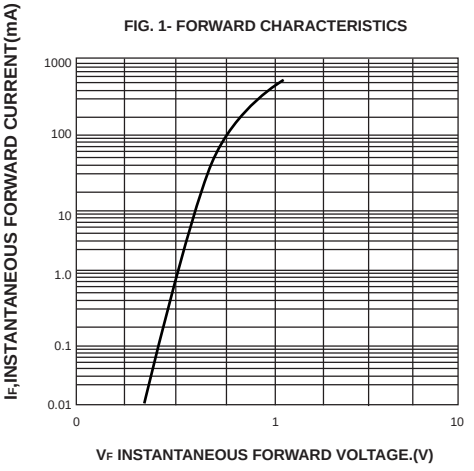

FIG. 2-LEAKAGE CURRENT VS JUNCTION TEMPERATURE