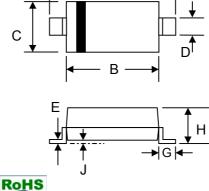


1N4148W / BAV16W

SURFACE MOUNT FAST SWITCHING DIODE

Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application
- Plastic Material UL Recognition Flammability Classification 94V-O



A

SOD-123					
Dim	Min	Мах			
Α	3.6	3.9			
В	2.5	2.8			
С	1.4	1.8			
D	0.5	0.7			
Е	_	0.2			
G	0.4				
Н	0.95	1.35			
J	_	0.12			
All Dimensions in mm					

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)

$\label{eq:maximum Ratings} \texttt{@T}_{A}\texttt{=}25^{\circ}\texttt{C} \text{ unless otherwise specified}$

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		Vrм	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	75	v
RMS Reverse Voltage		VR(RMS)	53	V
Forward Continuous Current (Note 1)		lгм	300	mA
Average Rectified Output Current (Note 1)		lo	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	A
Power Dissipation (Note 1)		Pd	410	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		R <i>θ</i> JA	315	K/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150	°C

Compliant

Electrical Characteristics @T_A=25°C unless otherwise specified

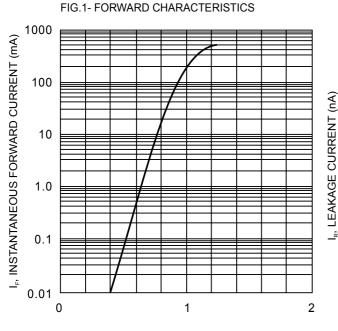
Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ I⊧ = 10mA	VFM	1.0	V
Peak Reverse Leakage Current	@ Vr = 20V @ Vr = 75V	IRM	25 5.0	nA μA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL = 100Ω .



1N4148W / BAV16W RATINGS AND CHARACTERISTIC CURVES



V_F, INSTANTANEOUS FORWARD VOLTAGE (V)

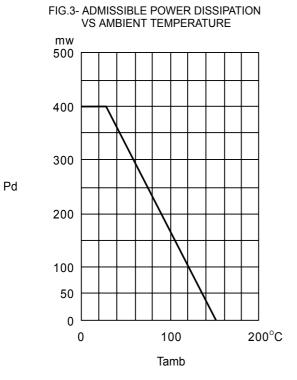


FIG.2- LEAKAGE CURRENT VS JUNCTION TEMPERATURE

