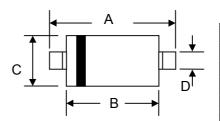


BAV16W

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



Dim	Min	Max			
Α	3.6	3.9			
В	2.5	2.8			
С	1.4	1.8			
D	0.5	0.7			
E	_	0.2			
G	0.4	_			
Н	0.95 1.35				
J	— 0.12				
All Dimensions in mm					

SOD-123

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.)

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	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)	lғм	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	А
Power Dissipation (Note 1)	Pd	410	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	315	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

RoHS

Electrical Characteristics @T_A=25°C unless otherwise specified

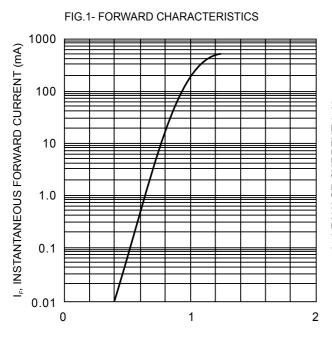
Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ IF = 10mA	VFM	1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	lкм	25 5.0	nΑ μΑ
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

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

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



BAV16W RATINGS AND CHARACTERISTIC CURVES



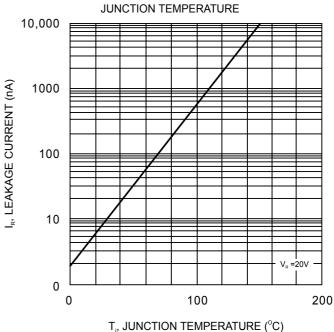


FIG.2- LEAKAGE CURRENT VS

 $V_{\scriptscriptstyle F}$, INSTANTANEOUS FORWARD VOLTAGE (V)

FIG.3- ADMISSIBLE POWER DISSIPATION VS AMBIENT TEMPERATURE

