

### **FEATURES**

- Average Rectified Output Current:I<sub>0</sub>=150 mA
- High Conductance

### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV16W	SOD-123	T6	3000
1N4148W	SOD-123	T4	3000







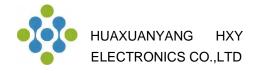
## MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit	
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V	
Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>			
Working Peak Reverse Voltage	V <sub>RWM</sub>	100	V	
DC Blocking Voltage	V <sub>R</sub>			
RMS Reverse Voltage	V <sub>R(RMS)</sub>	71	V	
Forward Continuous Current	I <sub>FM</sub>	300	mA	
Average Rectified Output Current	Ι <sub>Ο</sub>	150	mA	
Non-Repetitive Peak Forward Surge Current @t=8.3m	s I <sub>FSM</sub>	2.0	А	
Power Dissipation 1N4148W		350	mW	
BAV16W	Pd	400		
Thermal Resistance from 1N4148W		357.1	°C/W	
Junction to Ambient(Note 1) BAV16W	R <sub>θJA</sub>	312.5	C/W	
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	°C	

Note 1:Device mounted on 1"x1" FR4 PCB,1oz single-side copper.

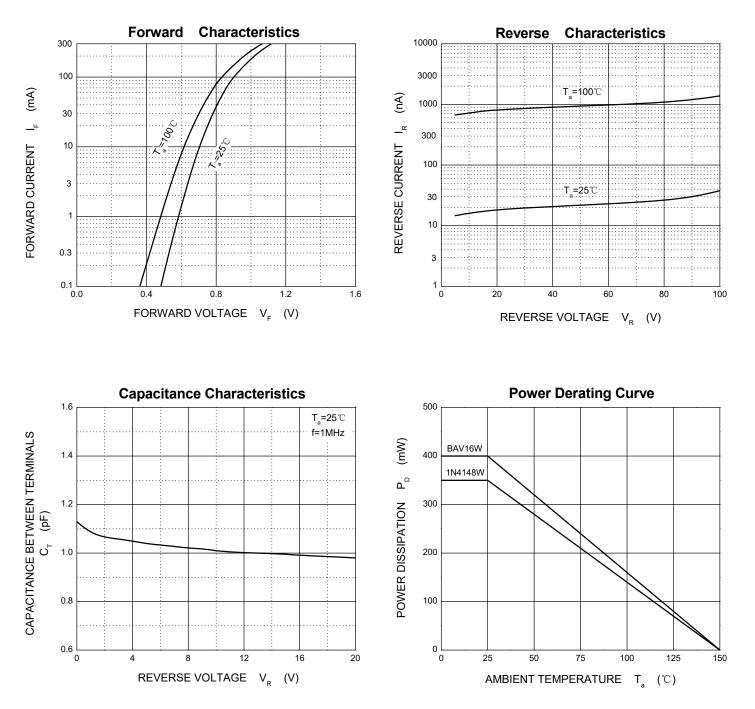
### ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V <sub>F1</sub>			0.715	V	I <sub>F</sub> =1mA
Forward valtage	V <sub>F2</sub>			0.855	V	I <sub>F</sub> =10mA
Forward voltage	$V_{F3}$			1.0	V	I <sub>F</sub> =50mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Reverse current	I <sub>R1</sub>			1	μA	V <sub>R</sub> =75V
Reverse current	I <sub>R2</sub>			25	nA	V <sub>R</sub> =20V
Capacitance between terminals	Ст			2	pF	V <sub>R</sub> =0V,f=1MHz
Reverse recovery time	t <sub>rr</sub>			4	ns	I <sub>F</sub> =I <sub>R</sub> =10mA
	чrr					$Irr=0.1XI_R, R_L=100\Omega$



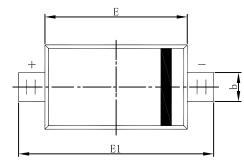
# BAV16W/1N4148W Switching Diodes

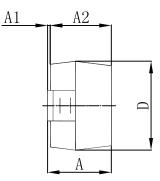
#### **Typical Characteristics**

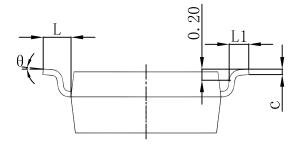




### **SOD-123 Package Outline Dimensions**







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	



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