

Features

- Average Rectified Output Current:I_O=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°C unless otherwise noted)

Parameter		Symbol	Limit	Unit	
Non-Repetitive Peak Reverse Voltage		V_{RM}	100	V	
Peak Repetitive Peak Reverse Voltage Working		V_{RRM}			
Peak Reverse Voltage		V_{RWM}	100	V	
DC Blocking Voltage		V_{R}			
RMS Reverse Voltage		$V_{R(RMS)}$	71	V	
Forward Continuous Current		I _{FM}	300	mA	
Average Rectified Output Current		lo	150	mA	
Non-Repetitive Peak Forward Surge Cu	rrent @t=8.3ms	I _{FSM}	2.0	А	
Power Dissipation	1N4148W	Pd	350	mW	
	BAV16W		400		
Thermal Resistance from	1N4148W	R _{0JA}	357.1	°C // //	
Junction to Ambient(Note 1)	BAV16W		312.5	°C/W	
Operation Junction and Storage Temper	rature Range	T_{J}, T_{STG}	-55~+150	°C	

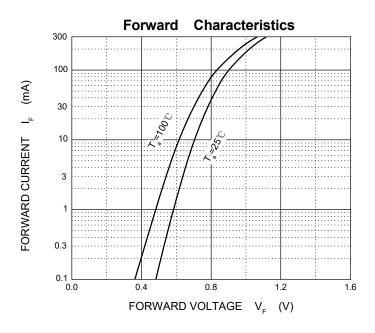
Note 1:Device mounted on 1"x1" FR4 PCB,1oz single-side copper.

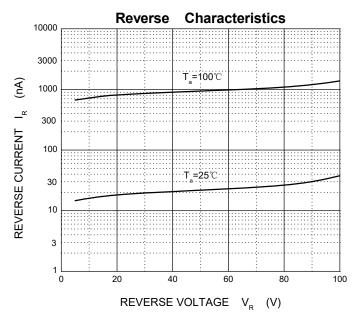
Electrical Characteristics (Ta=25°C unless otherwise specified)

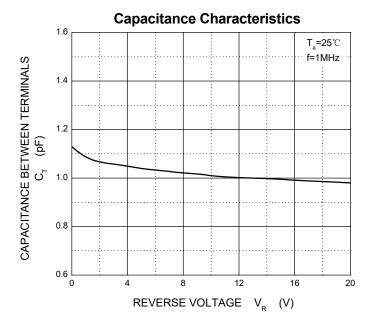
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V _{F1}			0.715	V	I _F =1mA
Enward voltage	V _{F2}			0.855	V	I _F =10mA
Forward voltage	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Doveres surrent	I _{R1}			1	μΑ	V _R =75V
Reverse current	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	C _T			2	pF	V _R =0V,f=1MHz
Payers receiver time	t _{rr}			4	ns	I _F =I _R =10mA
Reverse recovery time						Irr=0.1 XI_R , R_L =100 Ω

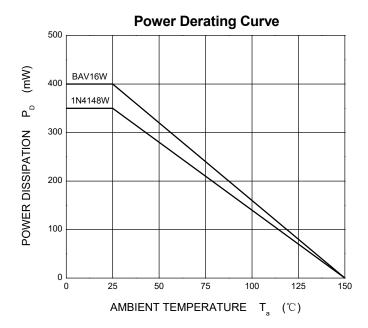


Typical Characteristics



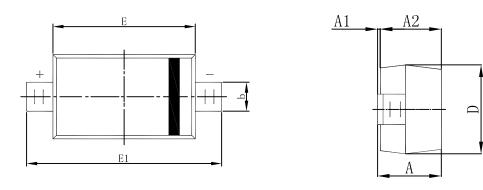


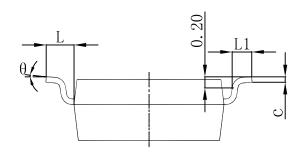






SOD-123 Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
Α	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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