

Features

- Average Rectified Output Current: Io=150 mA
- Power Dissipation of 200mW

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV16WS	SOD-323	Т6	3000
1N4148WS	SOD-323	T4	3000



SOD-323



Maxmim 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 Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance from Junction to Ambient	R _{0JA}	625	°C/W
Operation Junction and Storage Temperature Range	T_{J}, T_{STG}	-55~+150	°C

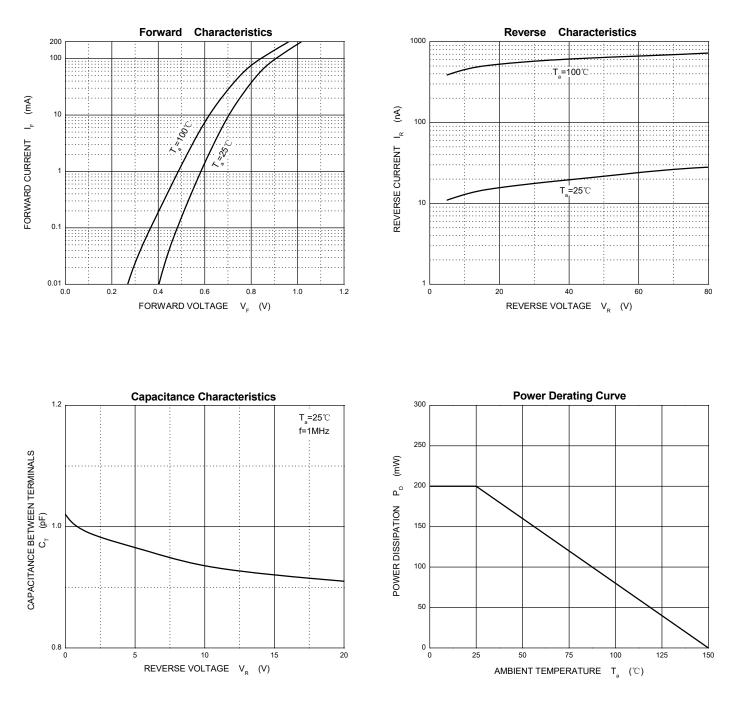
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	, Unit	Conditions
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	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	μA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	CT			2	pF	V _R =0V,f=1MHz
Reverse recovery time	t	t _{rr}		4	ns	I _F =I _R =10mA
	۹r					$Irr=0.1XI_R, R_L=100\Omega$



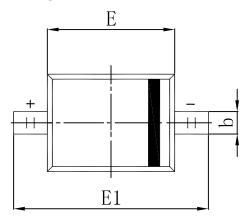
BAV16WS/1N4148WS Switching Diodes

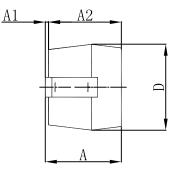
Typical Characteristics

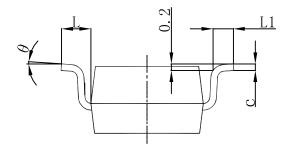




SOD-323 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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