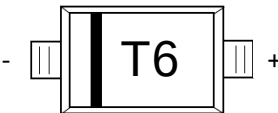


Features

- High switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance



SOD-323 top view

1N4148WS	BAV16WS
	
Marking:T4	Marking:T6
	



Halogen-Free

Maximum Ratings(T_a=25°C unless otherwise noted)

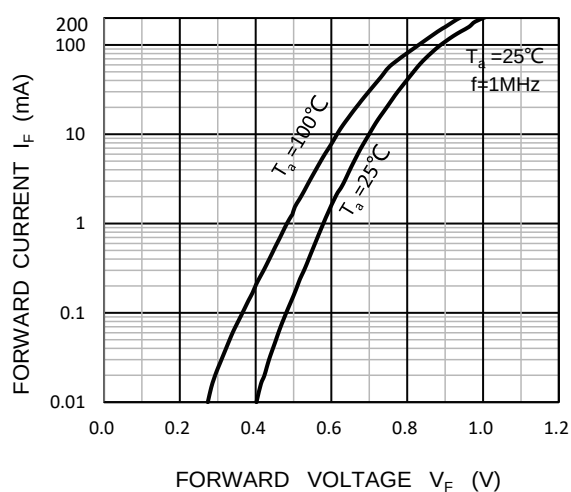
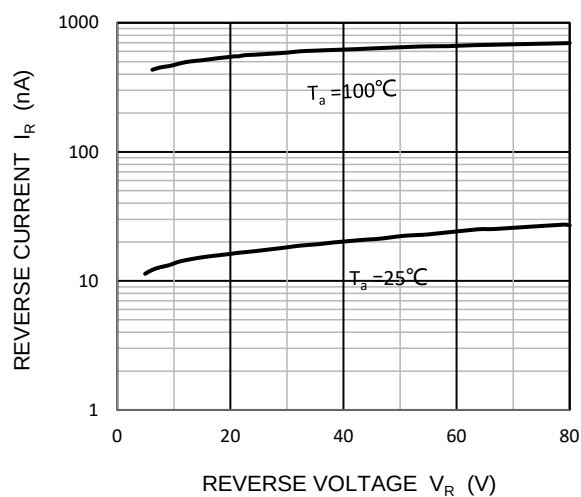
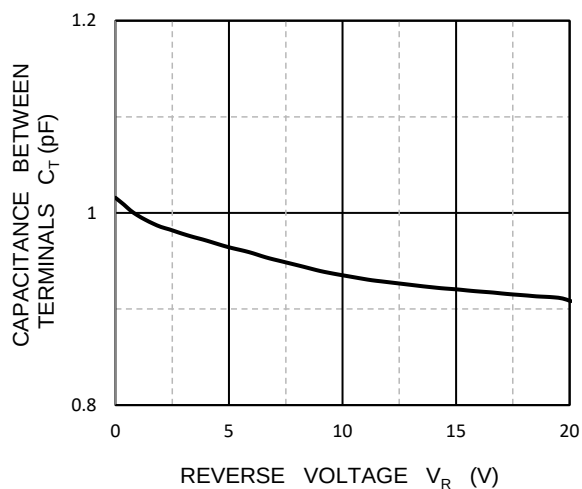
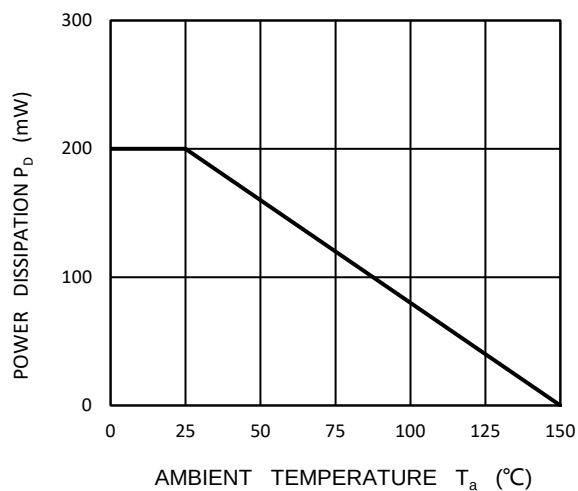
Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _R	Reverse Voltage	100	V
V _{RRM}	Peak Repetitive Reverse Voltage	100	V
V _{RWM}	Working Peak Reverse Voltage	100	V
V _{R(RMS)}	RMS Reverse Voltage	71	V
I _O	Average Rectified Output Current	150	mA
I _{FM}	Forward Continuous Current	300	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
P _D	Power Dissipation	200	mW
R _{ΘJA}	Thermal Resistance from Junction to Ambient	625	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

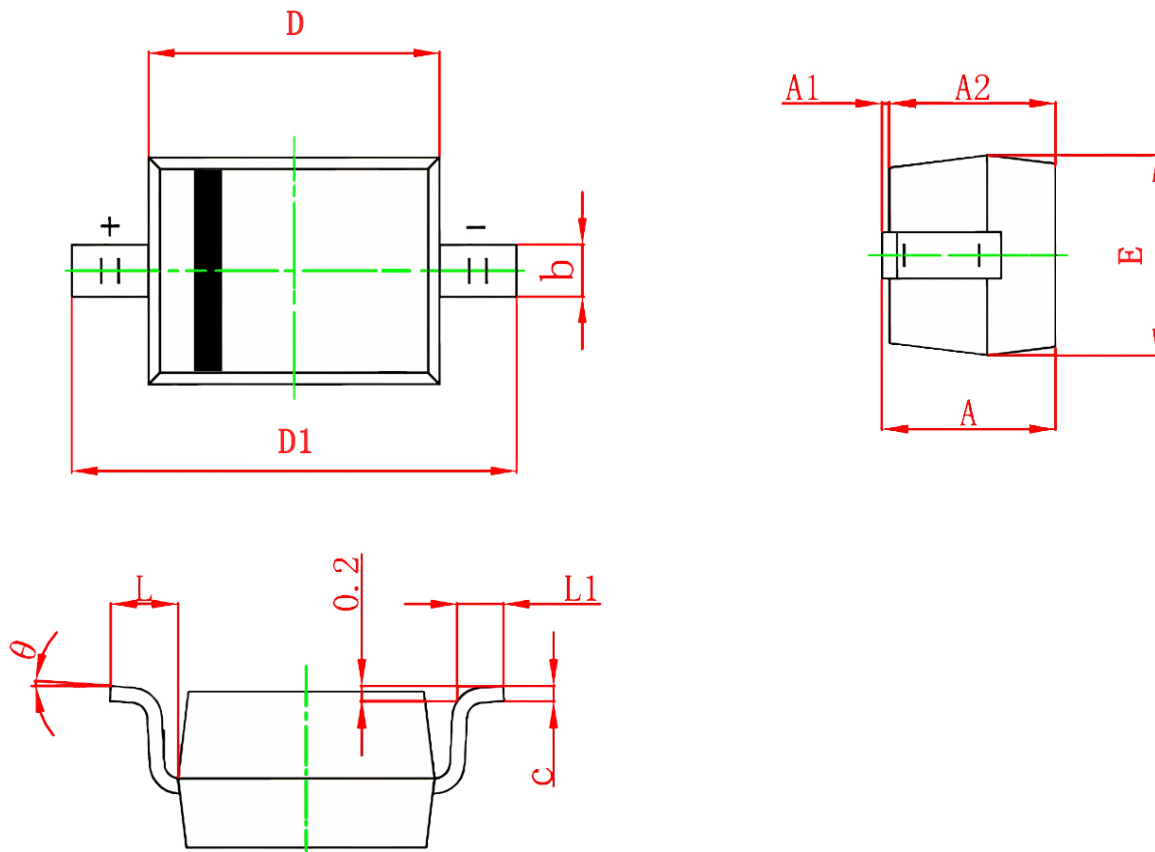
Symbol	Parameter	Condition	Min	Typ	Max	Unit
I _{R1}	Reverse current	V _R =75V	--	--	1	μA
I _{R2}		V _R =20V	--	--	25	nA
V _{F1}	Forward voltage	I _F =1mA	--	--	0.715	V
V _{F2}		I _F =10mA	--	--	0.855	V
V _{F3}		I _F =50mA	--	--	1	V
V _{F4}		I _F =150mA	--	--	1.25	V
C _{tot}	Total capacitance	V _R =0V,f=1MHz	--	--	2	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA, I _{rr} =1mA,R _L =100Ω	--	--	4	ns

Ordering Information (Example)

Type	Package	Marking	Minimum	Inner Box	Outer	Delivery
1N4148WS	SOD-323	T4	3,000	45,000	180,000	7"reel
BAV16WS	SOD-323	T6	3,000	45,000	180,000	7"reel

Typical Operating Characteristics
Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


SOD-323 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	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
c	0.080	0.150	0.003	0.006
D	1.600	1.800	0.063	0.071
D1	2.500	2.750	0.098	0.108
E	1.200	1.400	0.047	0.055
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°