

Features

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



SOD-123 top view

1N4148W	BAV16W
	
Marking:T4	Marking:T6
- T4 +	- T6 +



Halogen-Free

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

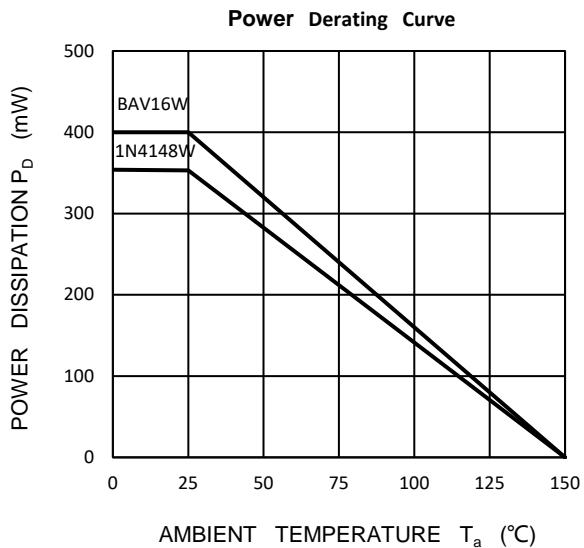
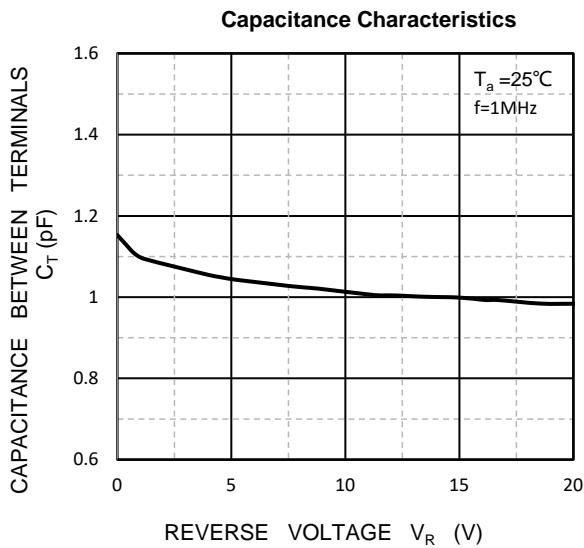
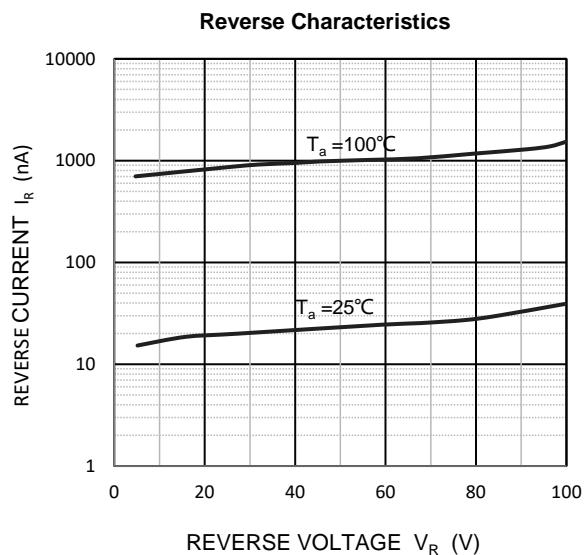
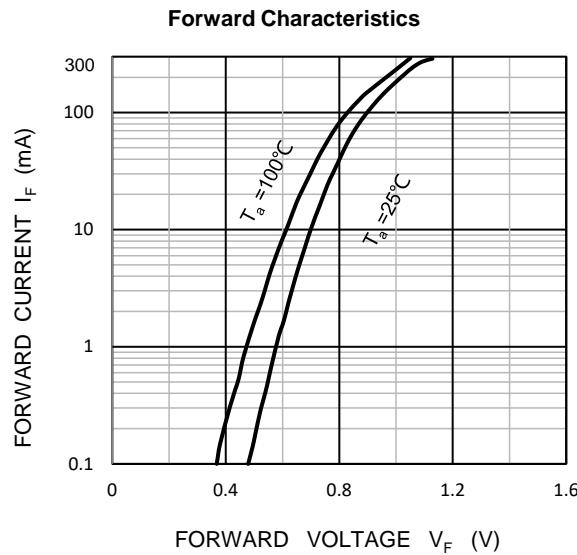
Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _R	Reverse Voltage	100	V
V _{RRM}	Peak Repetitive Reverse Voltage	100	V
V _{RWM}	Working Peak Reverse Voltage	100	V
V _{R(RMS)}	RMS Reverse Voltage	71	V
I _O	Average Rectified Output Current	150	mA
I _{FM}	Forward Continuous Current	300	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
P _D	Power Dissipation	1N4148W	mW
		BAV16W	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	1N4148W	°C/W
		BAV16W	°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

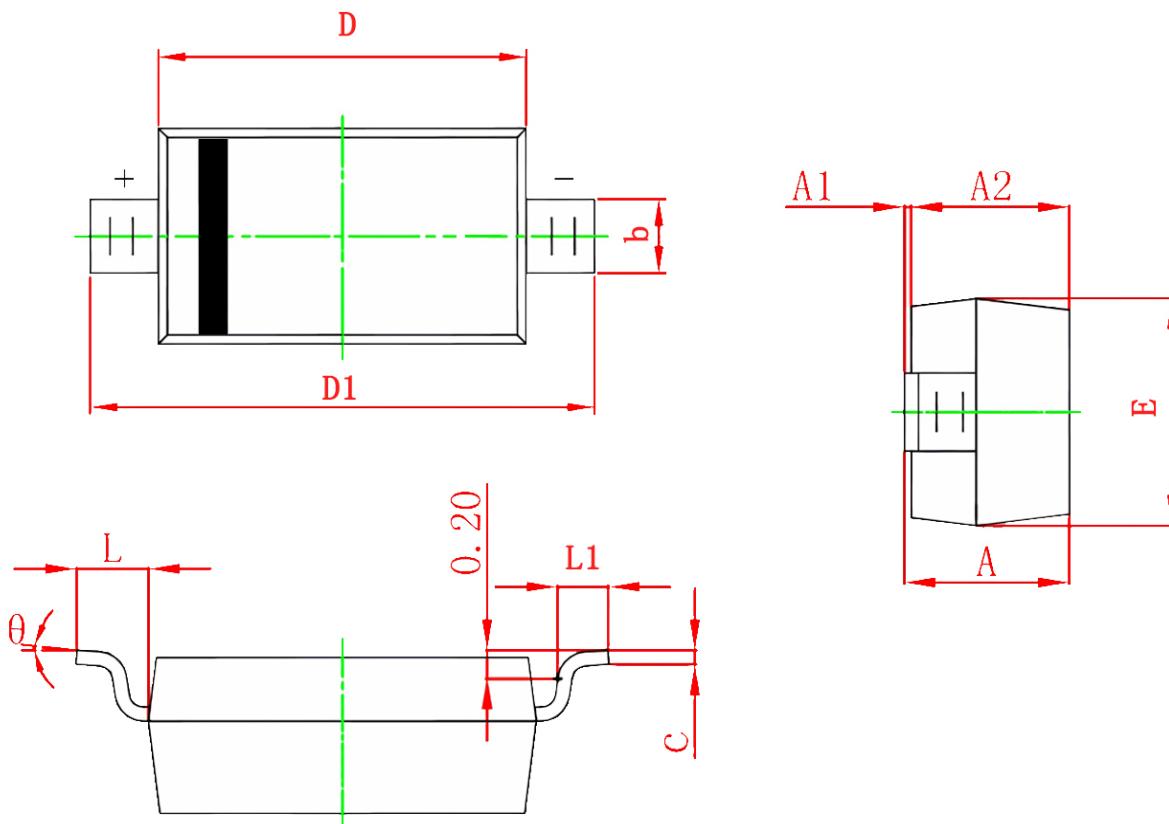
Symbol	Parameter	Condition	Min	Typ	Max	Unit
I _{R1}	Reverse current	V _R =75V	--	--	1	µA
		V _R =20V	--	--	25	nA
V _F	Forward voltage	I _F =1mA	--	--	0.715	V
		I _F =10mA	--	--	0.855	V
		I _F =50mA	--	--	1	V
		I _F =150mA	--	--	1.25	V
C _{tot}	Total capacitance	V _R =0V,f=1MHz	--	--	2	pF
t _{rr}	Reverse recovery time	I _F = I _R =10mA, I _{rr} =0.1X I _R , R _L =100Ω	--	--	4	ns

Ordering Information (Example)

Type	Package	Marking	Minimum	Inner Box	Outer	Delivery
1N4148W	SOD-123	T4	3,000	45,000	180,000	7" reel
BAV16W	SOD-123	T6	3,000	45,000	180,000	7" reel

Typical Operating Characteristics


SOD-123 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	0.080	0.150	0.003	0.006
D	2.600	2.800	0.102	0.110
D1	3.550	3.850	0.140	0.152
E	1.500	1.700	0.059	0.067
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°