

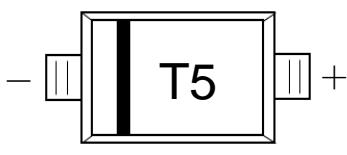
Features

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion



SOD-323 top view

Schematic diagram



Marking and pin assignment



Halogen-Free

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _R	Reverse Voltage	75	V
V _{RRM}			
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	53	V
I _O	Average Rectified Output Current	250	mA
I _{FM}	Forward Continuous Current	500	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2.0	A
P _D	Power Dissipation	500	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 Ratings @Ta=25°C

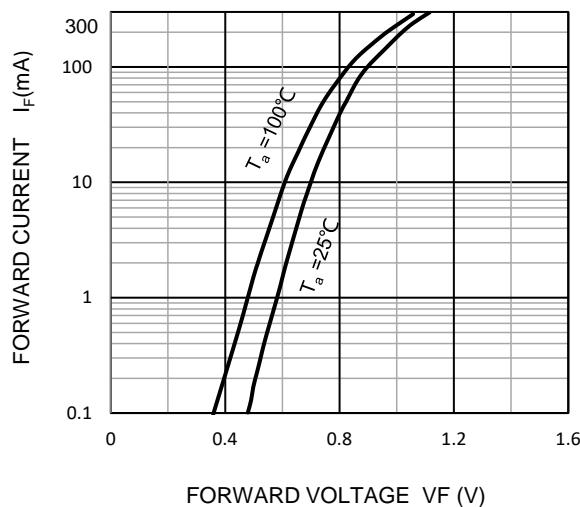
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _(BR)	Reverse voltage	I _R =10μA	75	--	--	V
I _{R1}	Reverse current	V _R =75V	--	--	2.5	μA
		V _R =20V	--	--	25	nA
V _{F1}	Forward voltage	I _F =5mA	0.62	--	0.72	V
		I _F =10mA	--	--	0.855	V
		I _F =100mA	--	--	1	V
		I _F =150mA	--	--	1.25	V
C _{tot}	Capacitance Between Terminals	V _R =0V,f=1MHz	--	--	4	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA I _{rr} =0.1XI _R ,R _I =100Ω	--	--	4	ns

Ordering Information (Example)

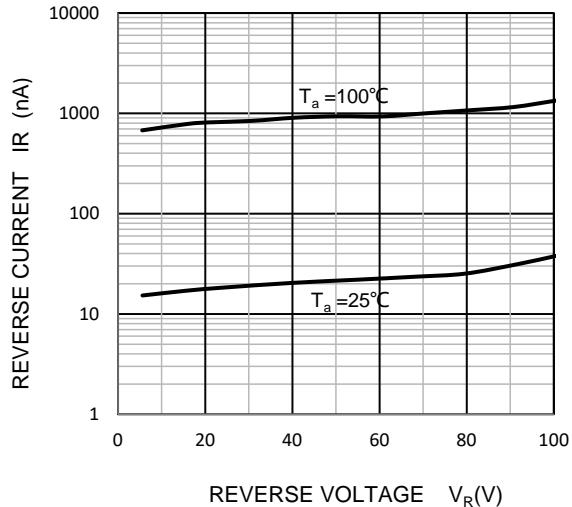
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1N4448WS	SOD-323	T5	3,000	45,000	180,000	7" reel

Typical Characteristics

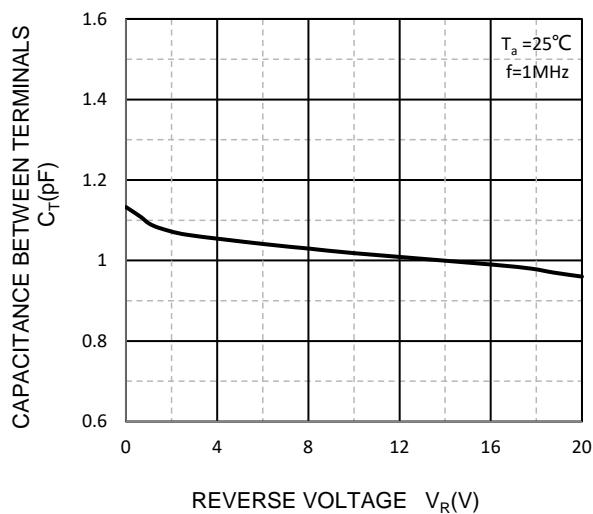
Forward Characteristics



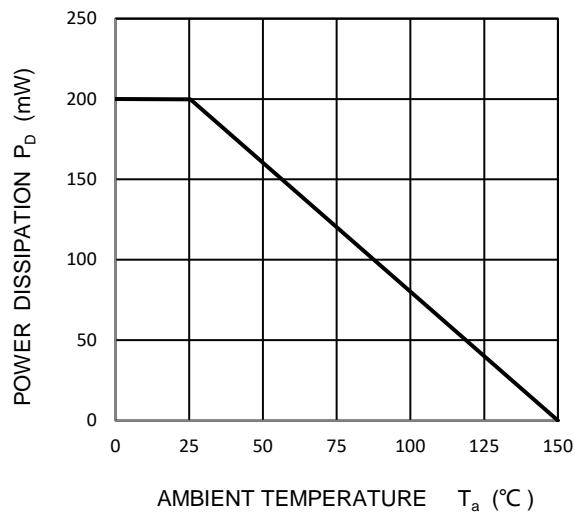
Reverse Characteristics



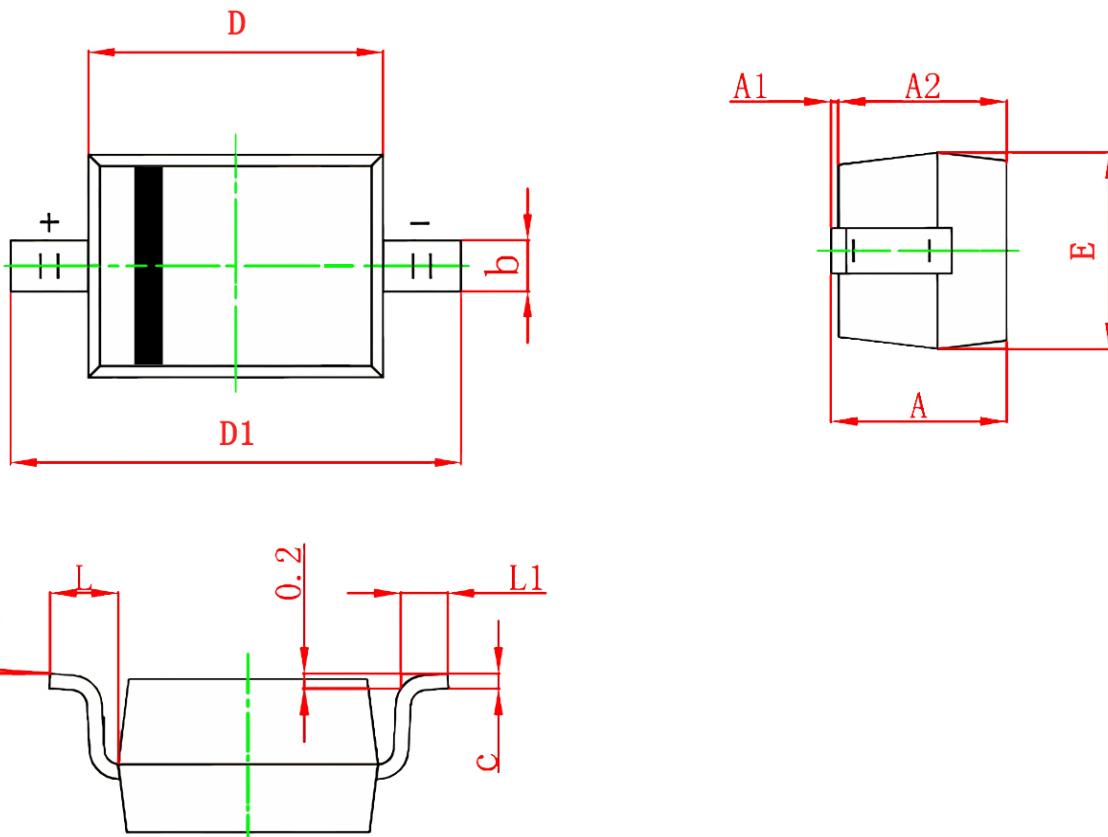
Capacitance Characteristics



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°