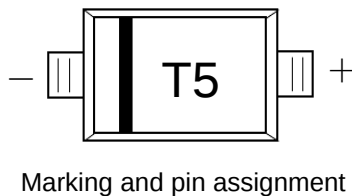
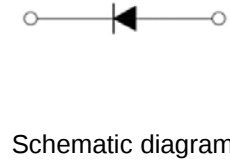


Features

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



Halogen-Free

Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_R	Reverse Voltage	75	V
V_{RRM}	Peak Repetitive Reverse Voltage		
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@ $t=8.3\text{ms}$	2.0	A
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	833	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

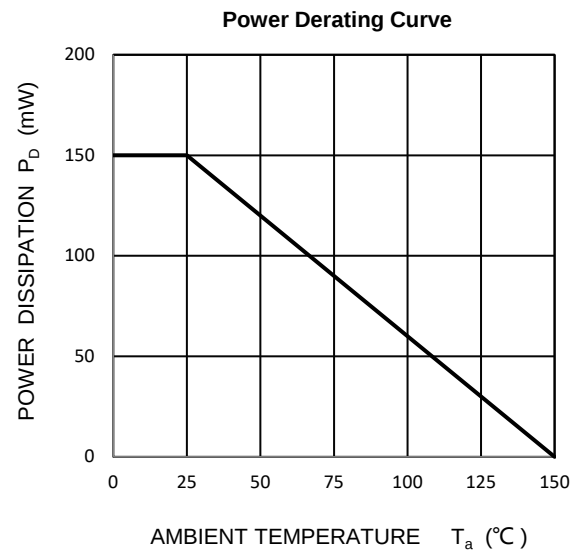
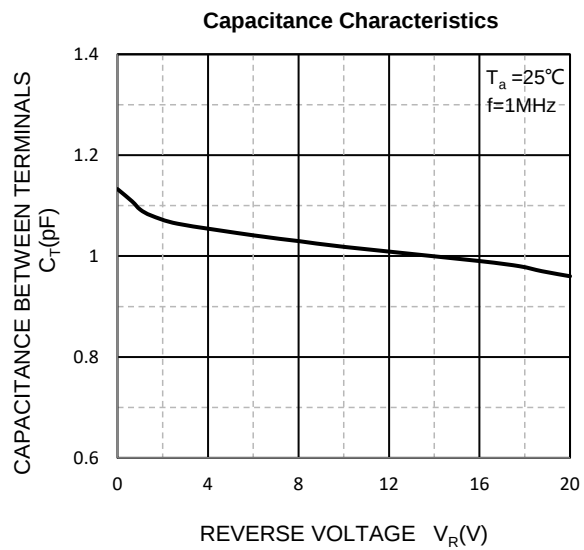
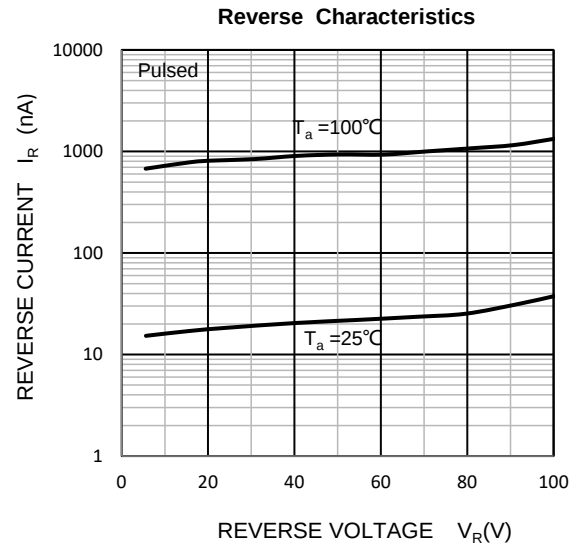
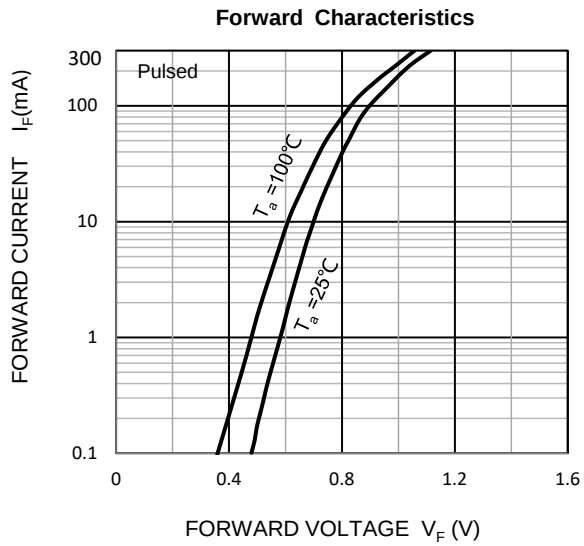
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise spe

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)1}$	Reverse voltage	$I_R=5\mu\text{A}$	75	--	--	V
$V_{(BR)2}$	Reverse voltage	$I_R=100\mu\text{A}$	100	--	--	V
I_R	Reverse current	$V_R=75\text{V}$	--	--	1	μA
		$V_R=20\text{V}$	--	--	25	nA
V_F	Forward voltage	$I_F=5\text{mA}$	--	--	0.715	V
		$I_F=10\text{mA}$	--	--	0.855	V
		$I_F=100\text{mA}$	--	--	1	V
		$I_F=150\text{mA}$	--	--	1.25	V
C_{tot}	Capacitance Between Terminals	$V_R=0\text{V}, f=1\text{MHz}$	--	--	4	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10\text{mA}, I_{rr}=0.1I_R, R_L=100\Omega$	--	--	4	ns

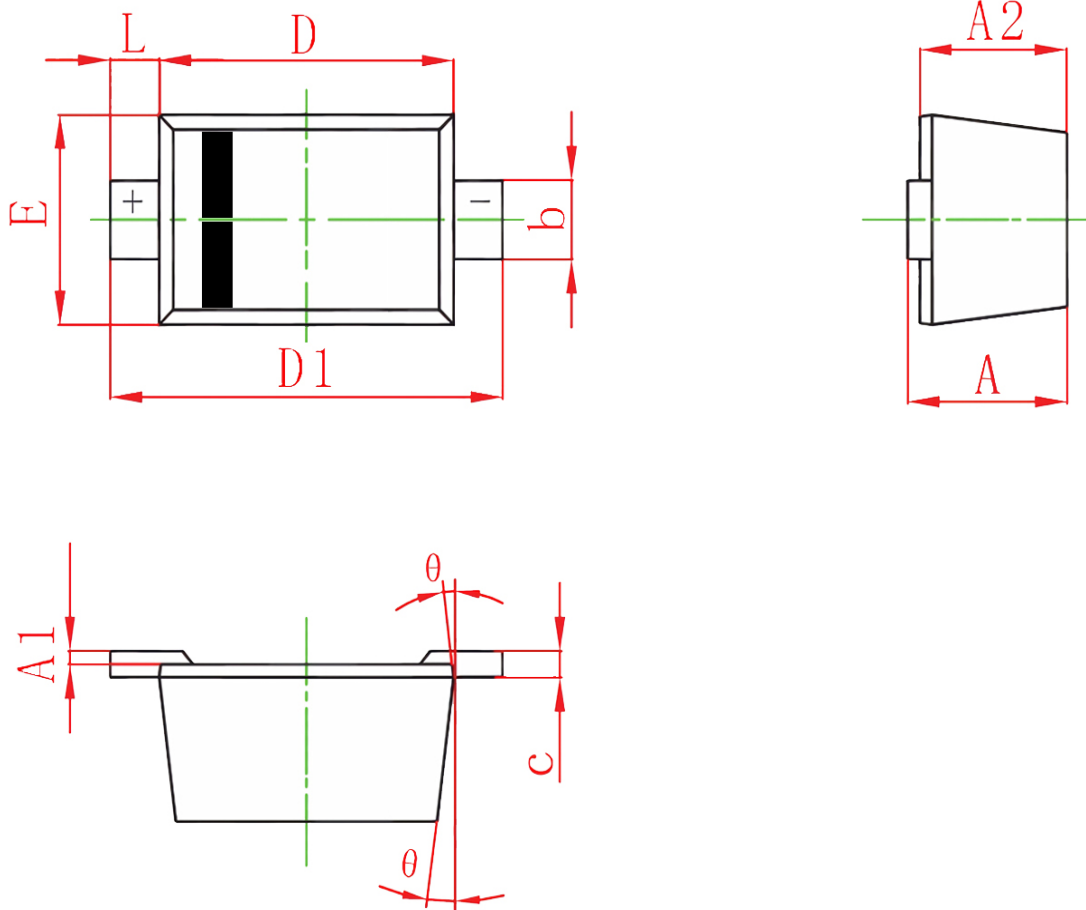
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1N4448WT	SOD-523	T5	3,000	45,000	180,000	7"reel

Typical Characteristics



SOD-523 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.030
A1	0.010	0.070	0.000	0.003
A2	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.100	1.300	0.043	0.051
D1	1.500	1.700	0.059	0.067
E	0.750	0.850	0.030	0.033
L	0.200 REF		0.008 REF	
θ	7°REF		7°REF	