

### Features

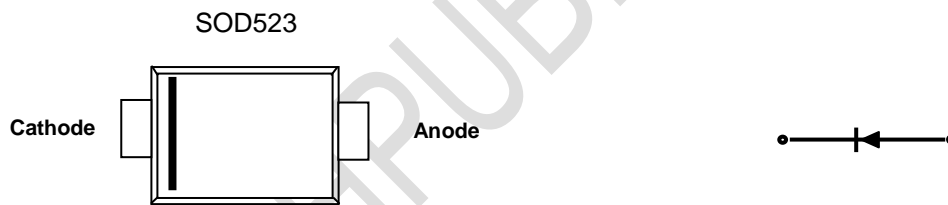
- High reverse impedance;
- Speed is fast.

### Applications

- High speed switch circuit

### Ordering Information

Part Number	Qty per Reel	Reel Size
1N4148WT	3000	7"



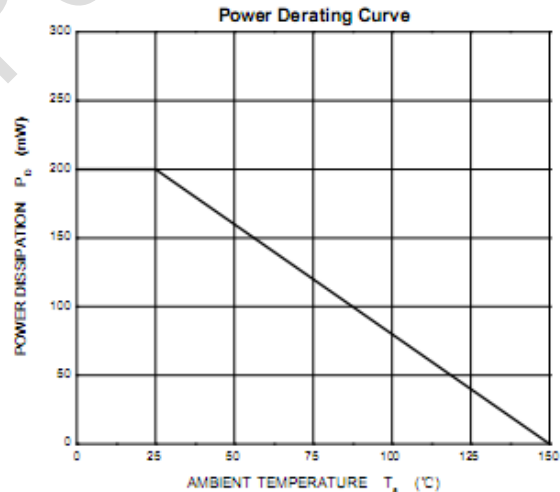
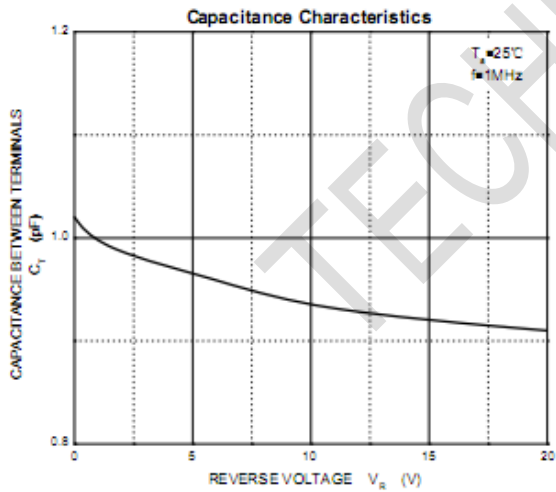
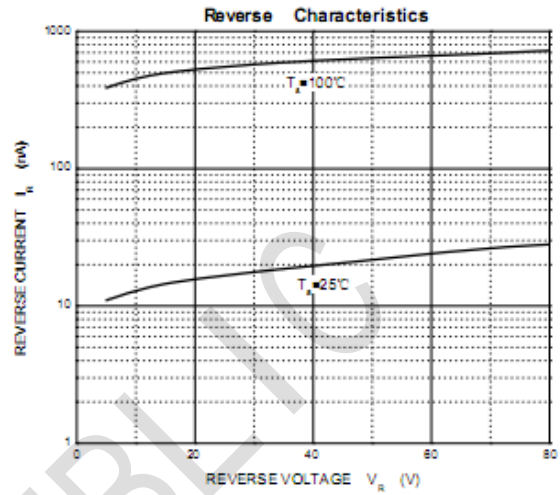
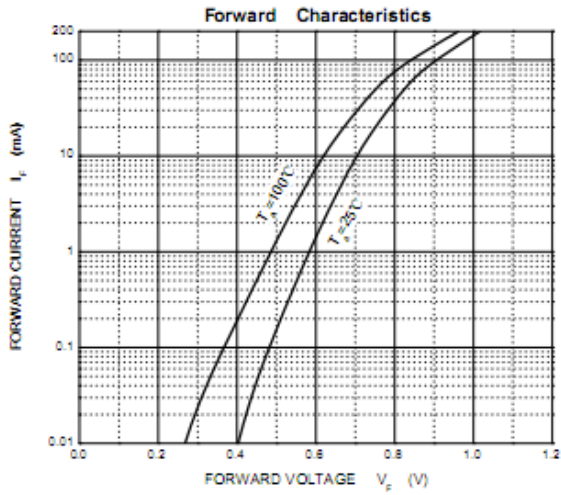
### Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
反向峰值电压/Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
重复反向峰值电压/ Repetitive Peak Reverse Voltage	$V_{RRM}$	75	V
重复正向峰值电流/ Repetitive Peak Forward Current	$I_{FRM}$	300	mA
连续正向电流/Continuous Forward Current	$I_o$	150	mA
正向瞬间峰值电流 @=1.0μS Peak Forward Surge Current	$I_{FSM}$	2	A
功率/ Power Dissipation	$P_D$	0.2	W
储存温度/Storage Temperature	Tstg	-55 ~ 150	°C

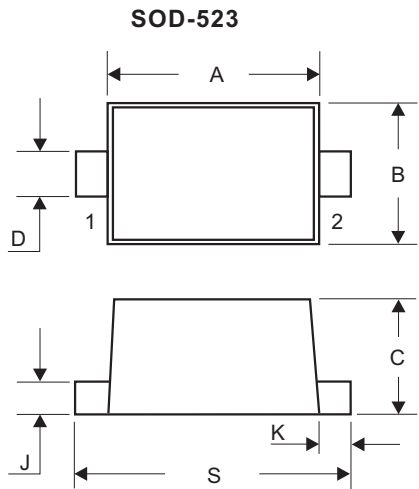
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Max	Unit
击穿电压/Break Voltage	B <sub>V</sub>	I <sub>R</sub> =100μ A	100		V
		I <sub>R</sub> =5μ A	75		
正向电压/Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		1	V
反向漏电流/Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =75V		5	μ A
	I <sub>R2</sub>	V <sub>R</sub> =20V		25	nA
端电容/Capacitance Between Terminals	C <sub>T</sub>	V <sub>R</sub> =0, f=1MHz		4	pF
反向恢复时间/Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =10mA, I <sub>R</sub> =60mA I <sub>rr</sub> =1mA, R <sub>L</sub> =100Ω		4	nS

**Typical Characteristics**



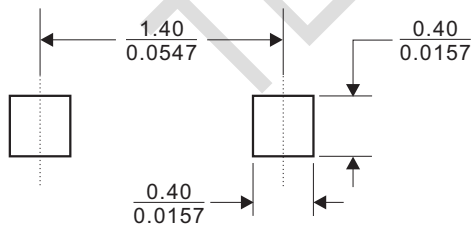
## Outline Drawing - SOD-523



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.10	1.30	0.043	0.051
B	0.70	0.90	0.028	0.035
C	0.50	0.70	0.020	0.028
D	0.25	0.35	0.010	0.014
J	0.07	0.20	0.0028	0.0079
K	0.15	0.25	0.006	0.010
S	1.50	1.70	0.059	0.067

## Land Pattern - SOD-523

### Recommended Mounting Pad Layout



Dimensions in ( millimeters )  
inches