

Features

- High reverse impedance;
- Speed is fast.

Applications

- High speed switch circuit

Ordering Information

Part Number	Qty per Reel	Reel Size
TPBT4148-523	3000	7"



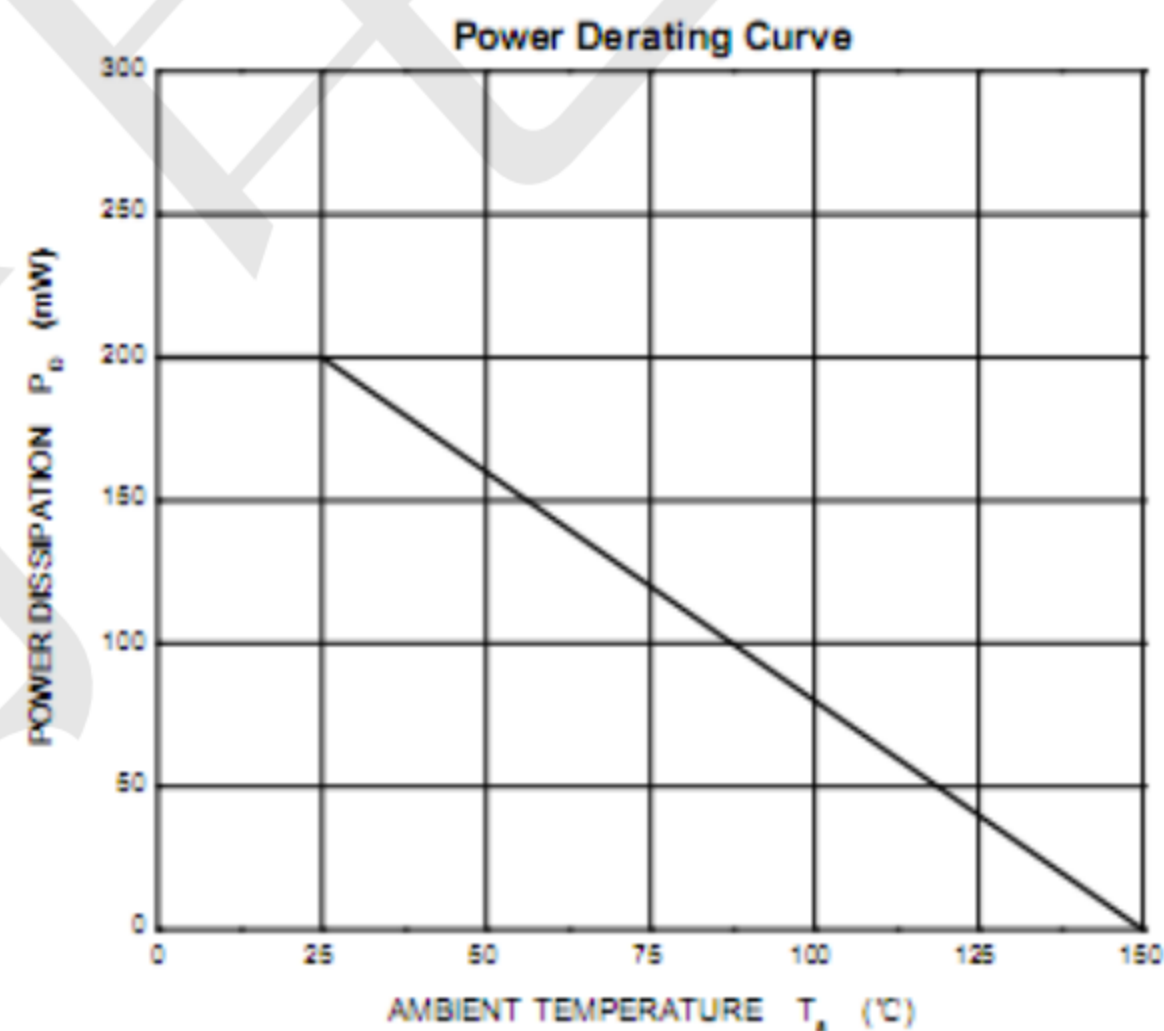
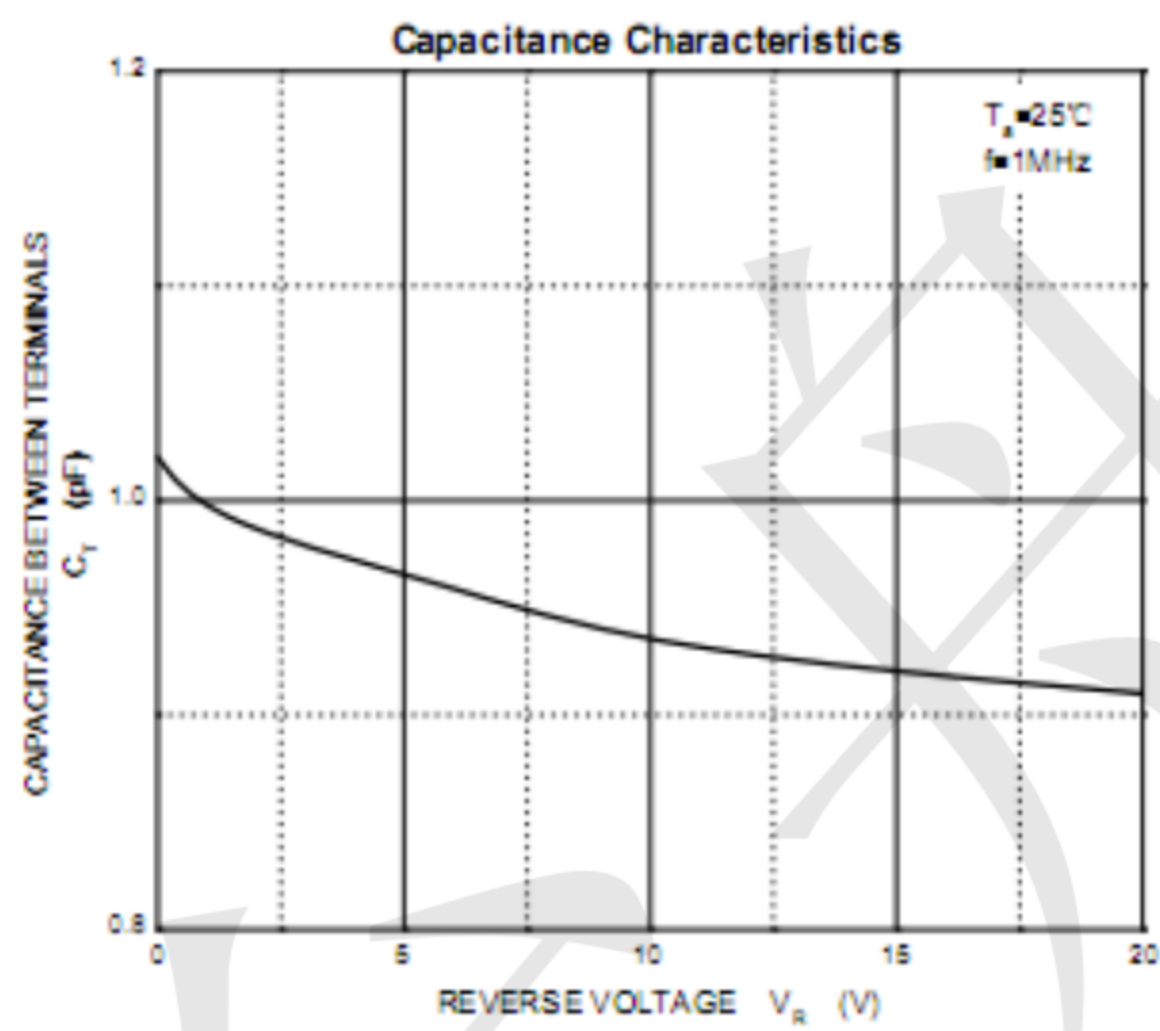
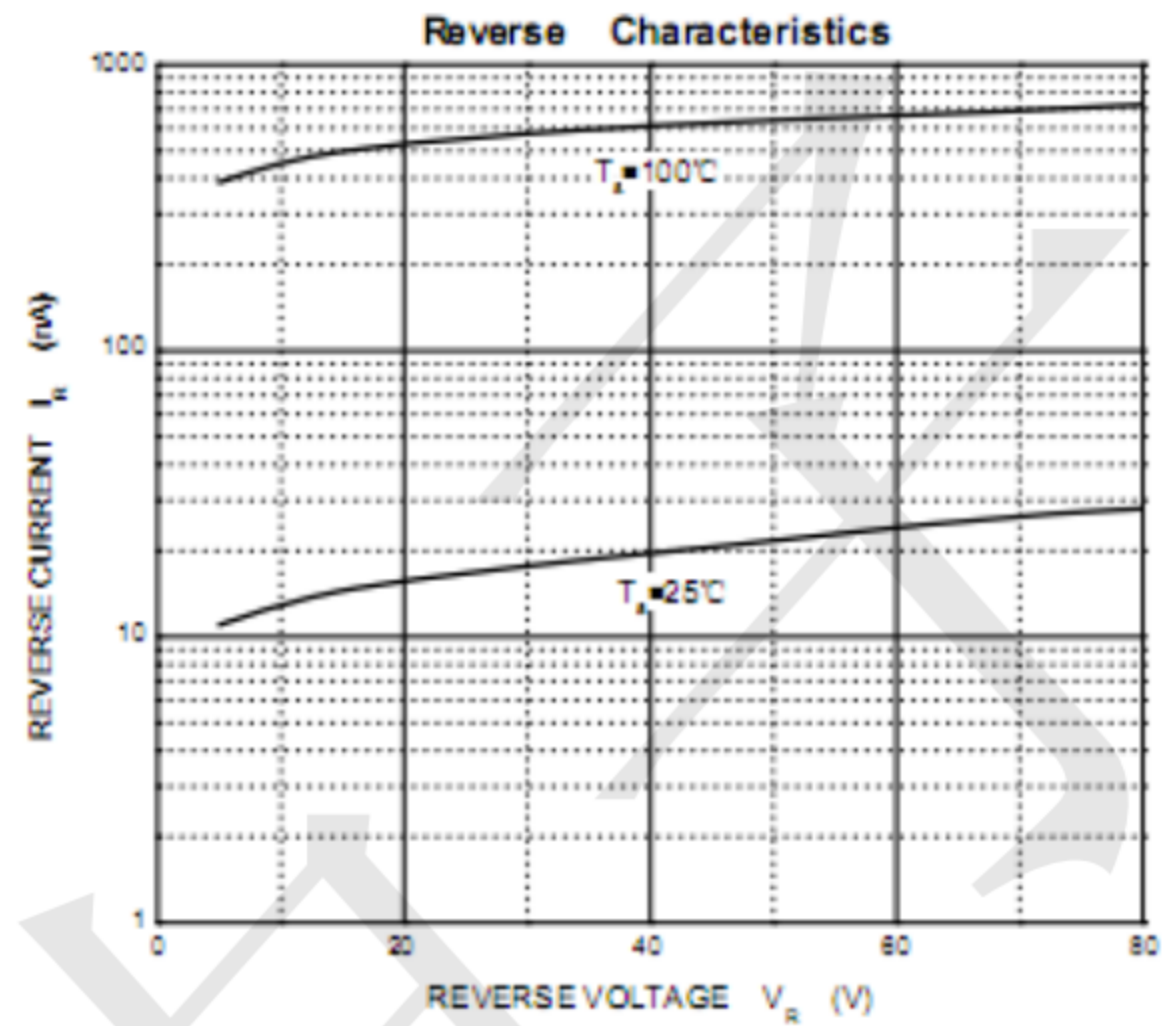
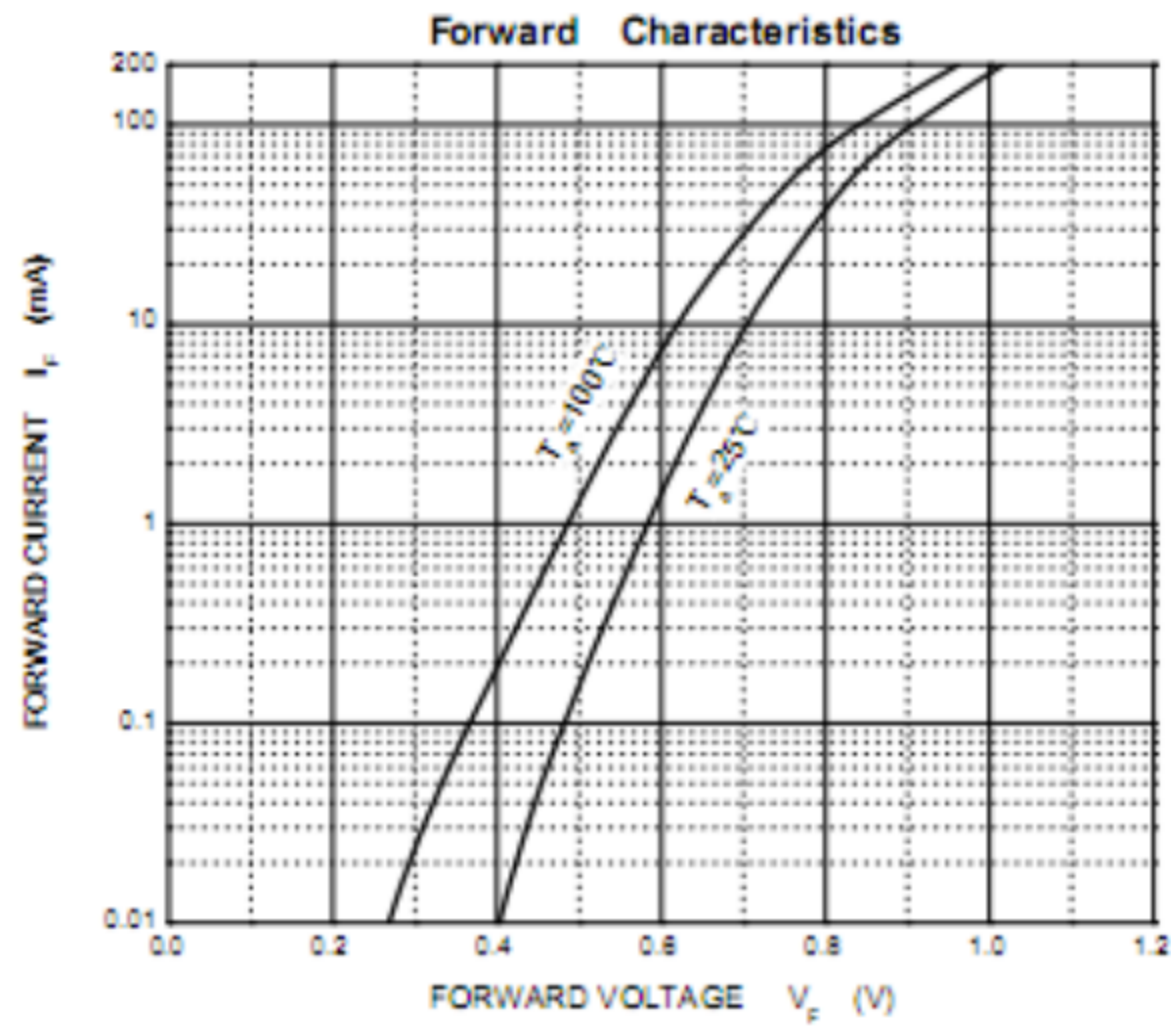
Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

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

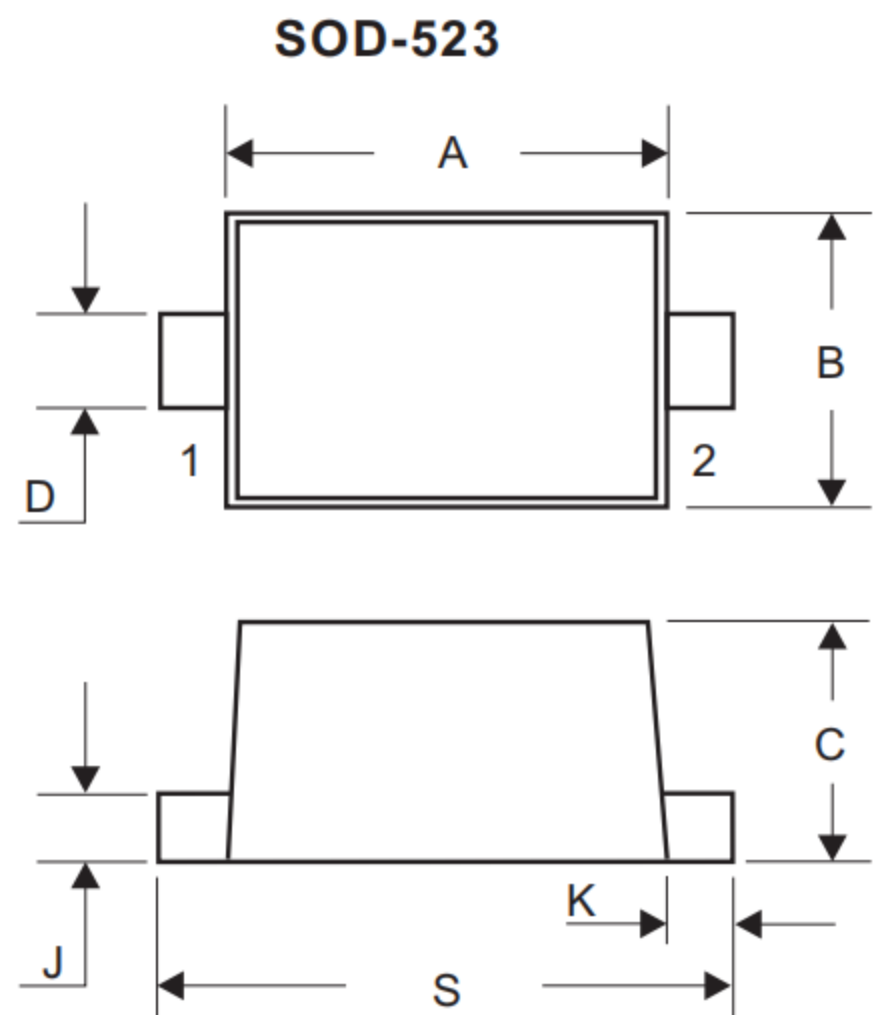
Electrical Characteristics (TA=25°C unless otherwise specified)

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

Typical Characteristics



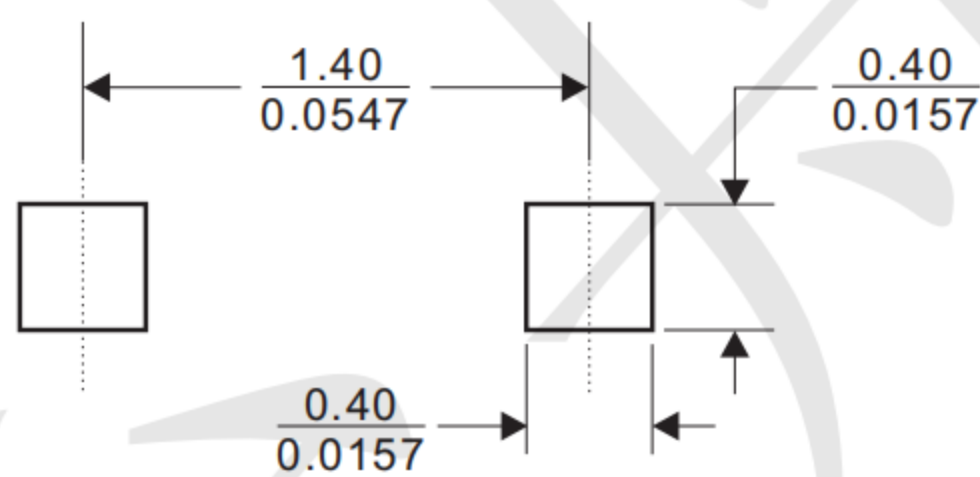
Outline Drawing - SOD-523



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 ($\frac{\text{millimeters}}{\text{inches}}$)