

特徵 Features

- 開關速度小於 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 最大功率耗散 150mW; Power Dissipation of 150mW
- 高穩定性和可靠性。 High Stability and High Reliability
- 反向漏電流小。 Low reverse leakage

機械資料 Mechanical Data

- 封裝: SOD-523 封裝 SOD-523 Small Outline Plastic Package
- 極性: 色環端為負極 Polarity: Color band denotes cathode end
- 安裝位置: 任意 Mounting Position: Any

SOD-523



MARKING: T4





極限值和溫度特性(TA = 25°C 除非另有規定)

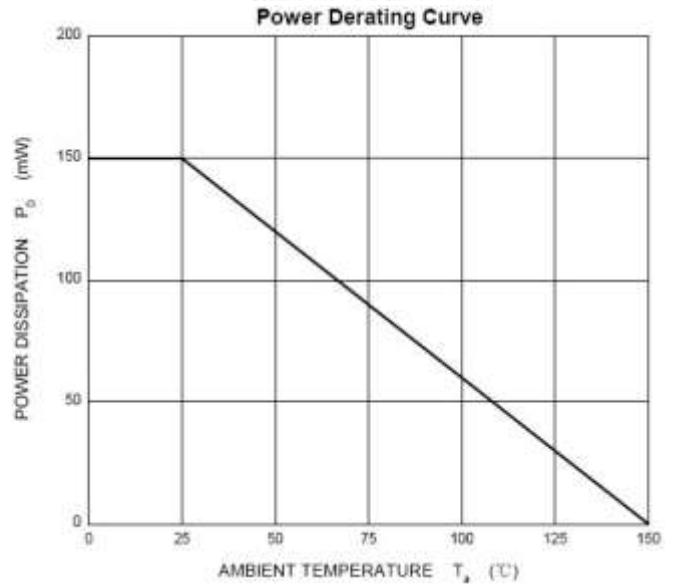
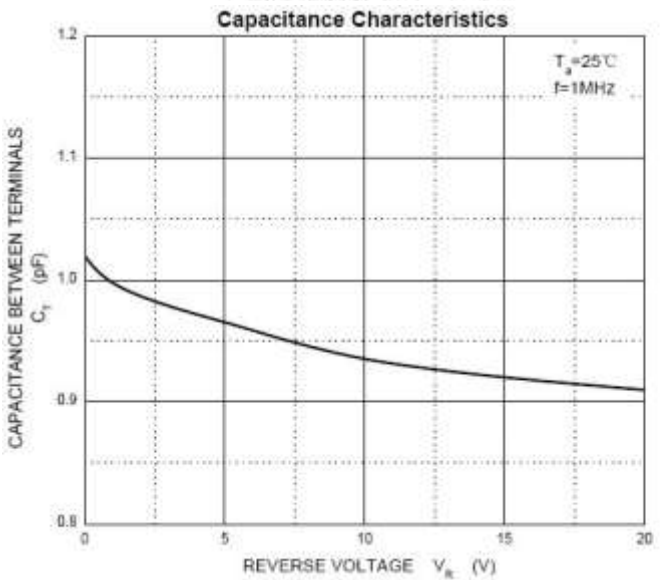
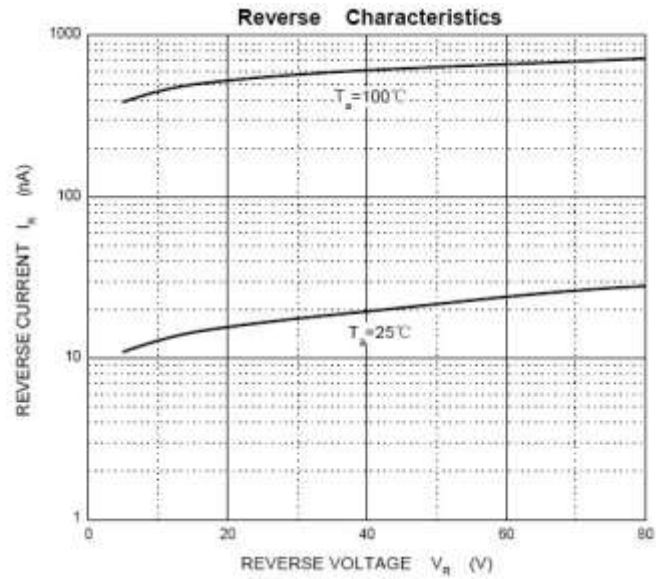
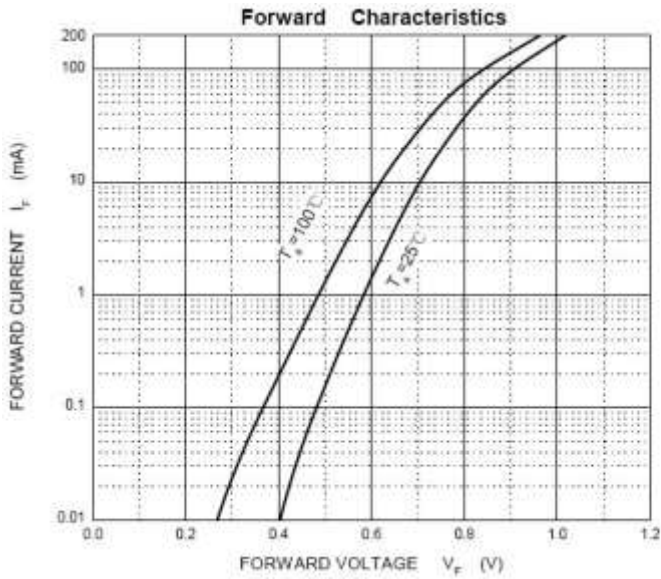
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

參數 Parameters	符號 Symbol	數值 Value	單位 Unit
反向電壓 Reverse Voltage	V _R	75	V
反向峰值電壓 Peak Reverse Voltage	V _{RM}	100	V
功率消耗 Power Dissipation	P _d	150	mW
工作結溫 Operating junction temperature	T _j	150	°C
存儲溫度 Storage temperature range	T _s	-55-+150	°C
熱阻 Thermal Resistance from Junction to Ambient	R _{θJA}	833	°C/W
反向工作電壓 Working Inverse Voltage	W _{IV}	75	V
平均整流電流 Average Rectified Current	I _O	150	mA
正向(不重複)電流 Non-repetitive Peak Forward Current	I _{FM}	300	mA
正向(不重複)浪湧電流 Peak Forward Surge Current @tp=1us; TA=25°C	I _{FSM}	2.0	A

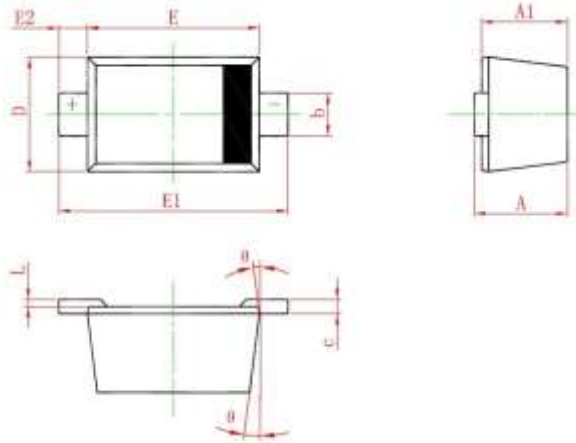
Valid provided that electrodes are kept at ambient temperature.

電特性 Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

符號 Symbols	參數 Parameter	測試條件 Test Condition	界限 Limits		單位 Unit
			Min	Max	
BV	反向擊穿電壓	IR=100uA	100		V
	Breakdown Voltage	IR=5uA	75		
IR	反向漏電電流	VR=20V	---	25	nA
	Reverse Leakage Current	VR=75	---	1	uA
VF	正向電壓	IF=1.0mA	---	0.715	V
	Forward Voltage	IF=10mA	---	0.855	
		IF=50mA	---	1.00	
		IF=150mA	---	1.25	
TRR	反向恢復時間	IF= IR=10mA	---	4	nS
	Reverse Recovery Time	RL=100Ω			
		IRR=0.1 X IR			
CT	結電容	VR=0V, f=1MHZ	---	2	pF
	Capacitance				



SOD-523 PACKAGE OUTLINE



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	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	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	