SOD-523

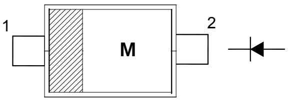
1SS314WT

SILICON EPITAXIAL PLANAR DIODE

for VHF tuner band switch applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: **"M"**
Simplified outline SOD-523 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	100	mA
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 2 mA	V_F	-	0.85	V
Reverse Current at V_R = 15 V	I_R	-	0.1	µA
Reverse Voltage at I_R = 1 µA	V_R	30	-	V
Total Capacitance at V_R = 6 V, f = 1 MHz	C_T	-	1.2	pF
Series Resistance at I_F = 2 mA, f = 100 MHz	r_S	-	0.9	Ω

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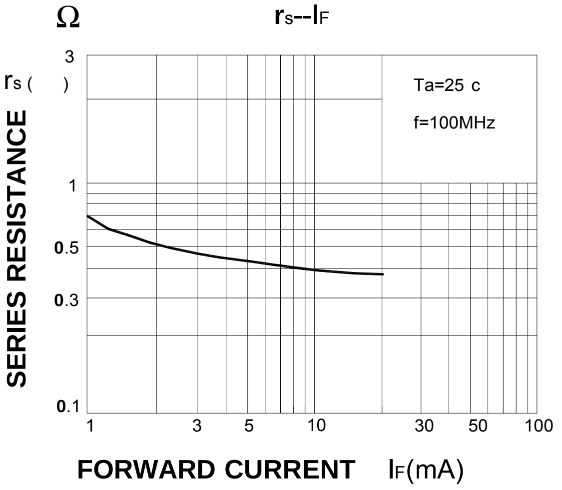
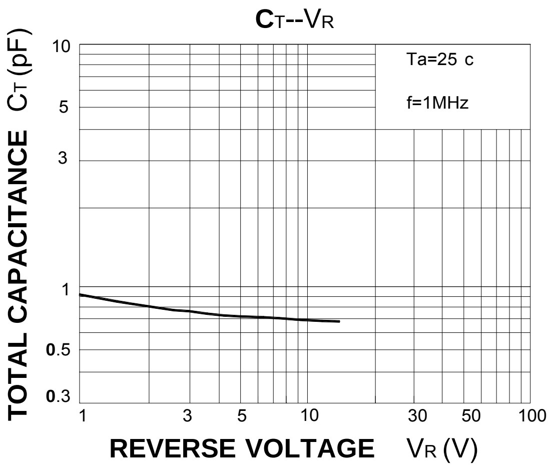
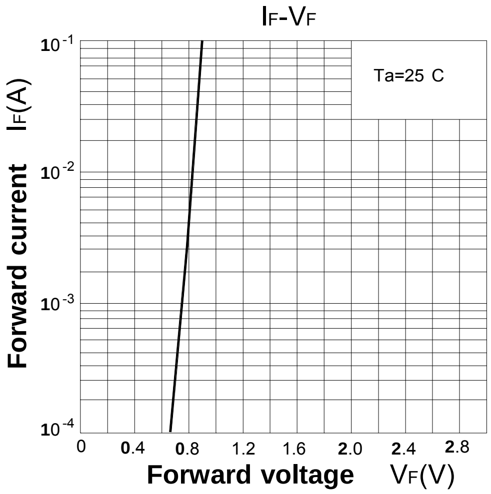

rs--IF
Ω
rs ( )
SERIES RESISTANCE
3
1
0.5
0.3
0.1
Ta=25 c
f=100MHz
1
3
5
10
30
50
100
FORWARD CURRENT IF(mA)


CT--VR
TOTAL CAPACITANCE CT (pF)
10
5
3
1
0.5
0.3
Ta=25 c
f=1MHz
1
3
5
10
30
50
100
REVERSE VOLTAGE VR (V)


IF-VF
Forward current IF(A)
10-1
10-2
10-3
10-4
Ta=25 C
0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
Forward voltage VF(V)