CHINA BASE
INTERNATIONAL

SOD-323

KDS114WS

www.china-base.com.hk

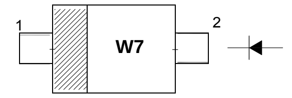
SILICON EPITAXIAL PLANAR DIODE

Features

- Small package
- Small total capacitance
- Low series resistance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**W7**"
Simplified outline SOD-323 and symbol

Applications

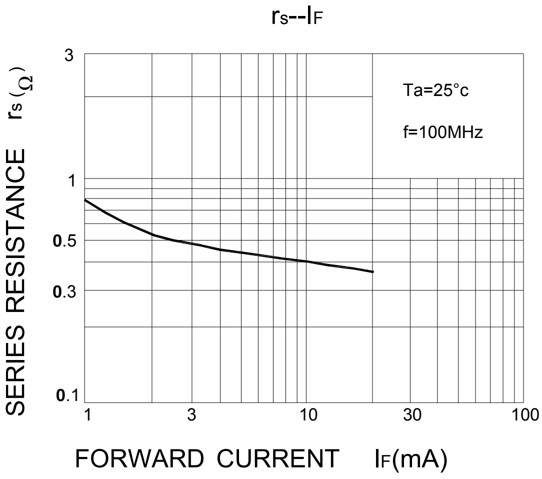
- VHF tuner band switch

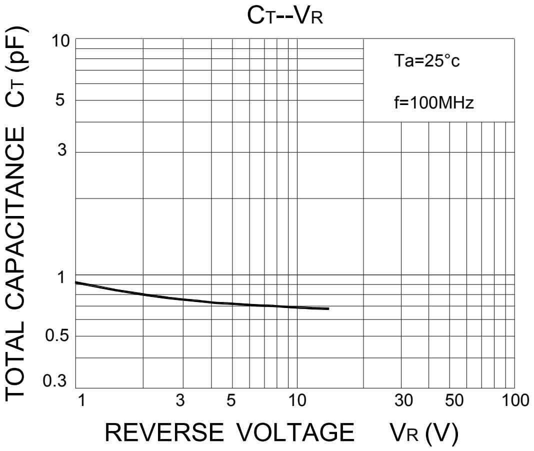
Absolute Maximum Ratings (T_a = 25 °C)

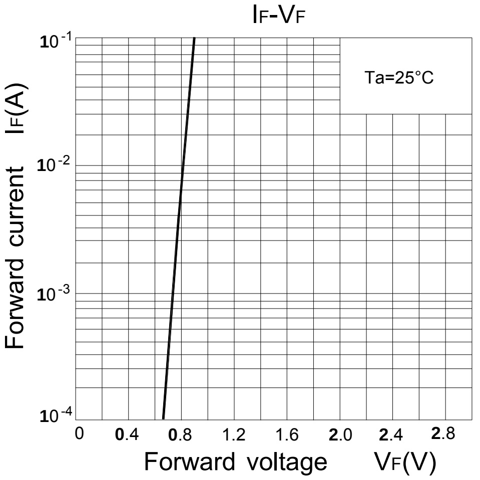
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	100	mA
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics (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 = 5 V, f = 1 MHz	C_T	-	1.2	pF
Series Resistance at I_F = 2 mA, f = 100 MHz	r_S	-	0.9	Ω


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


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


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