Silicon PIN diode

Features

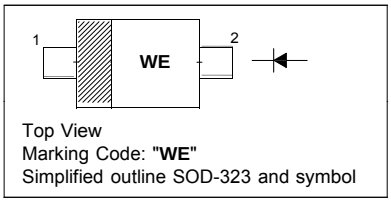
- Low forward resistance
- Low capacitance

Applications

- Current-controlled RF resistor for switching and attenuating applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

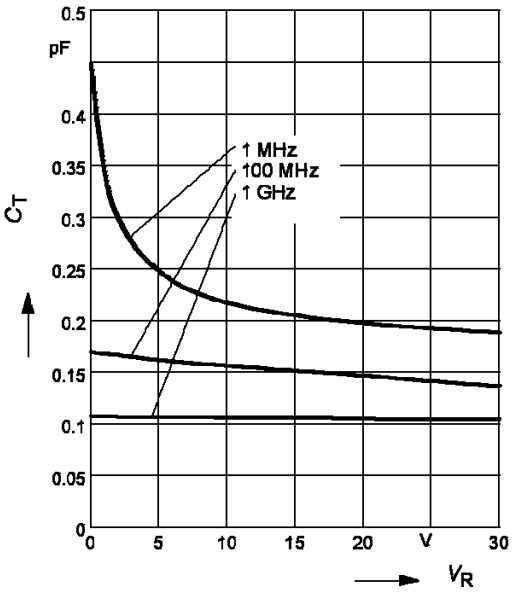
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	50	V
Continuous Forward Current	I_F	50	mA
Junction Temperature	T_j	150	°C
Operating Temperature Range	T_{opr}	- 55 to + 125	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

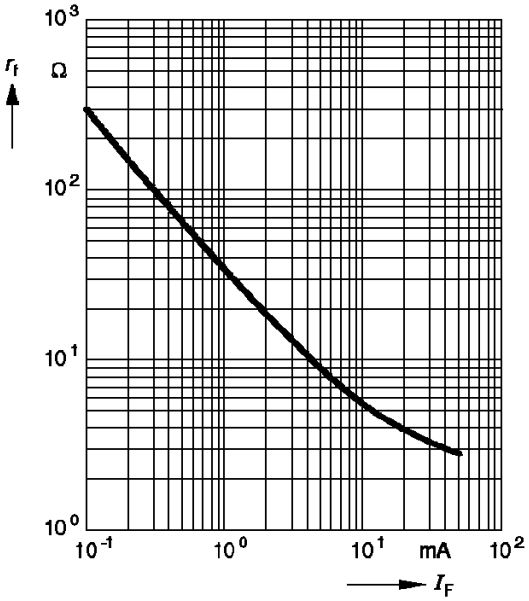
Electrical Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 50 mA	V_F	-	1.1	V
Reverse Current at V_R = 30 V	I_R	-	20	nA
Reverse Voltage at I_R = 10 µA	V_R	50	-	V
Diode Capacitance at V_R = 0 V, f = 100 MHz at V_R = 10 V, f = 1 MHz	C_d	- -	0.4 0.6	pF
Forward Resistance at I_F = 1.5 mA, f = 100 MHz at I_F = 10 mA, f = 100 MHz	r_f	- -	40 7	Ω

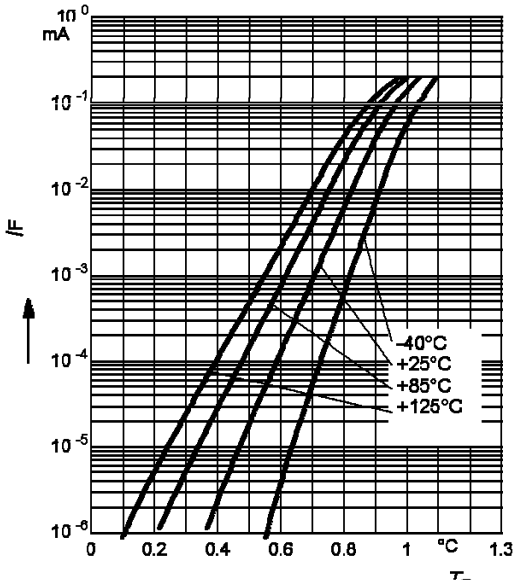
Diode capacitance $C_T = f(V_R)$



Forward resistance $r_f = f(I_F)$



Forward current $I_F = f(V_F)$



Forward current $I_F = f(T_S)$