SOD-323

1N119WS

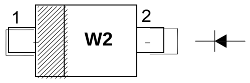
Silicon Epitaxial Planar Switching Diode

Applications

- High speed switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**W2**"
Simplified outline SOD-323 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Current	I_{FM}	300	mA
Non-repetitive Peak Surge Forward Current (t = 1 µs)	I_{FSM}	4	A
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 10 mA at I_F = 100 mA	V_F	0.8 1.2	V
Reverse Current at V_R = 80 V	I_R	0.1	µA
Capacitance between Terminals at V_R = 0 V, f = 1 MHz	C_T	2	pF
Reverse Recovery Time at V_R = 6 V, I_F = 10 mA, R_L = 50 Ω	t_{rr}	3	ns

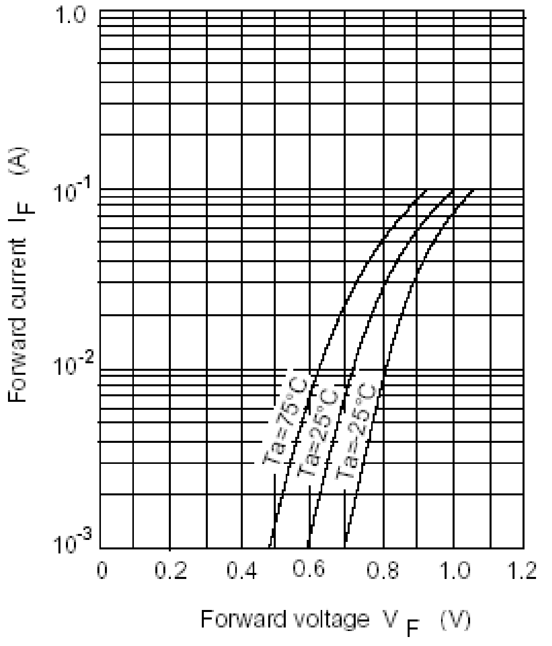


Fig.1 Forward current Vs. Forward voltage

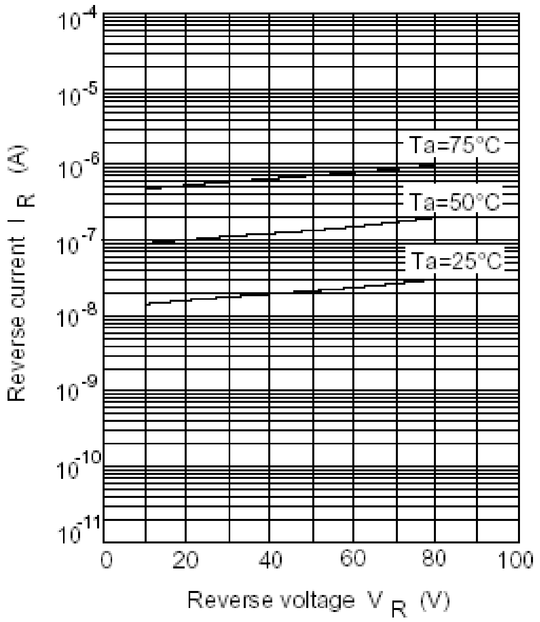


Fig.2 Reverse current Vs. Reverse voltage

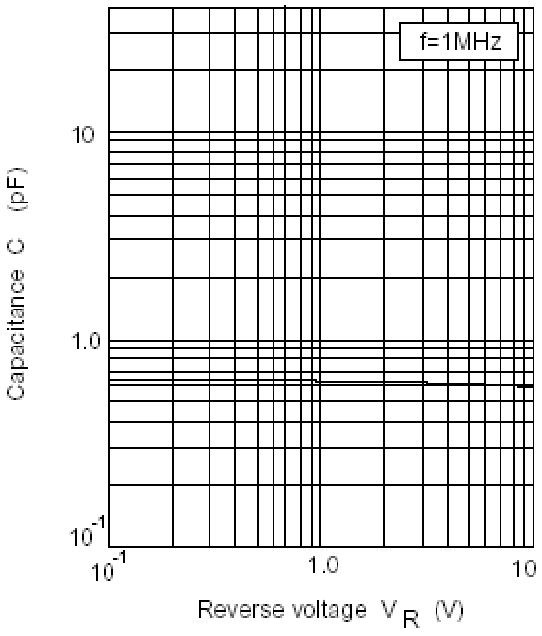


Fig.3 Capacitance Vs. Reverse voltage