

1N119WS

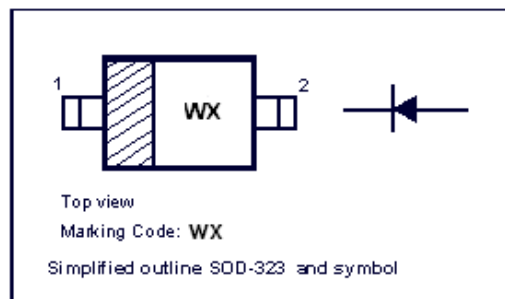
SILICON EPITAXIAL PLANAR DIODE

APPLICATIONS

- High speed switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



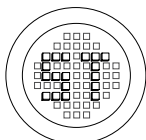
Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Peak forward current	I_{FM}	300	mA
Average forward current	I_o	100	mA
Non-repetitive peak forward current (Note 1)	I_{FSM}	4	A
Junction temperature	T_J	125	?
Storage temperature	T_{stg}	-55 ... +125	?

Note 1: Value at duration of $1\mu\text{ sec}$.

Electrical Characteristics ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.8	V	$I_F = 10\text{mA}$
	V_{F2}	-	-	1.2	V	$I_F = 100\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R = 80\text{V}$
Capacitance between terminals	C_T	-	-	2.0	pF	$V_R = 0\text{V}$, $f = 1\text{MHz}$
Reverse recovery time	t_{rr}	-	-	3	ns	$V_R = 6\text{V}$, $I_F = 10\text{mA}$, $R_L = 50\Omega$



®

РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

1N119WS

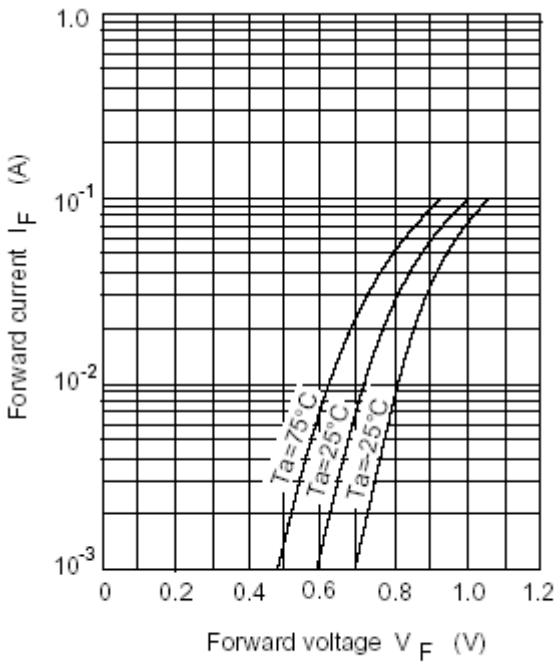


Fig.1 Forward current Vs. Forward voltage

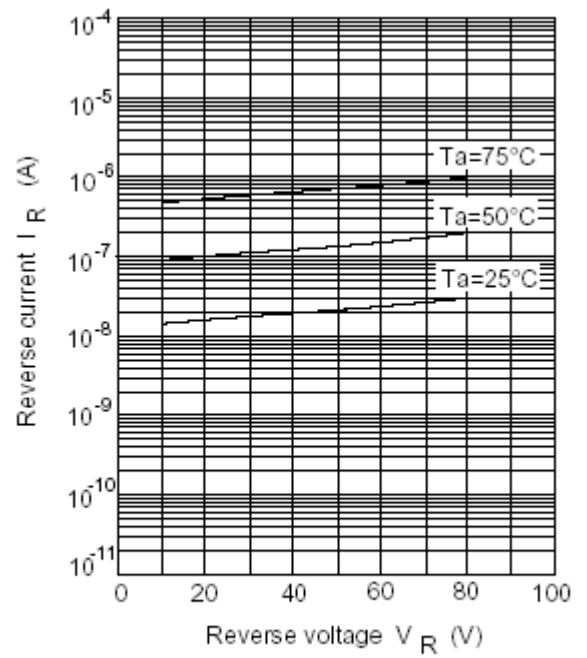


Fig.2 Reverse current Vs. Reverse voltage

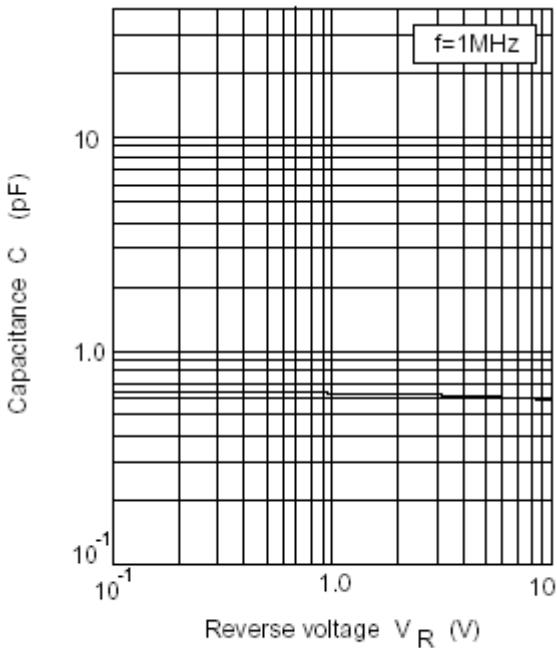
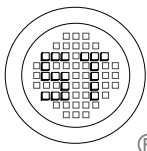


Fig.3 Capacitance Vs. Reverse voltage



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

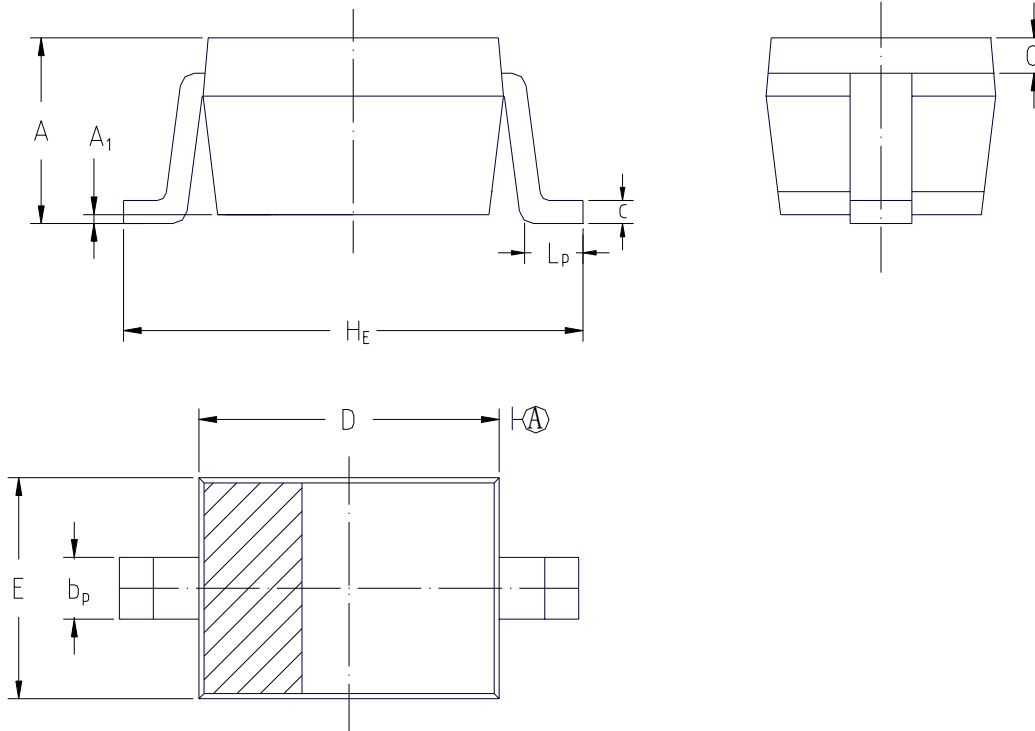
Dated : 17/06/2005

1N119WS

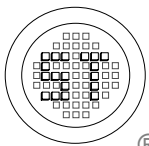
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	A ₁	b _p	c	D	E	H _E	L _p	Q
mm	1.10 0.80	0.1 0	0.40 0.25	0.15 0.00	1.80 1.60	1.35 1.15	2.80 2.30	0.50 0.10	0.15 REF.



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

Dated : 17/06/2005