



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

KDS114WS

SILICON EPITAXIAL PLANAR DIODE

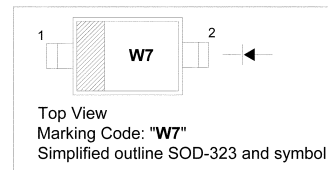
VHF TUNER BAND SWITCH APPLICATIONS

FEATURES

- Small package.
- Small total capacitance: $C_T = 1.2\text{pF}(\text{max.})$
- Low series resistance: $r_s = 0.5\Omega(\text{typ.})$

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

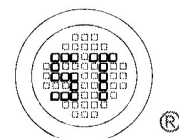


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55 ... +150	$^\circ\text{C}$

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

Characteristics	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward voltage	V_F	-	-	0.85	V	$I_F = 2\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R = 15\text{V}$
Reverse voltage	V_R	30	-	-	V	$I_R = 1\mu\text{A}$
Total capacitance	C_T	-	0.7	1.2	pF	$V_R = 5\text{V}$, $f = 1\text{MHz}$
Series resistance	r_s	-	0.5	0.9	Ω	$I_F = 2\text{mA}$, $f = 100\text{MHz}$



SEMTECH

Dated : 30/08/2004



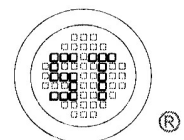
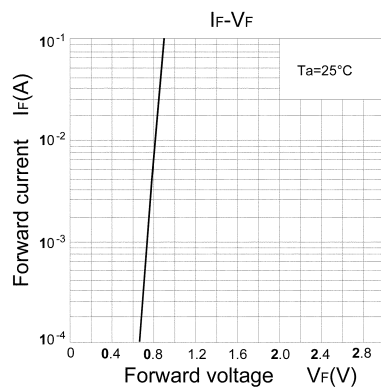
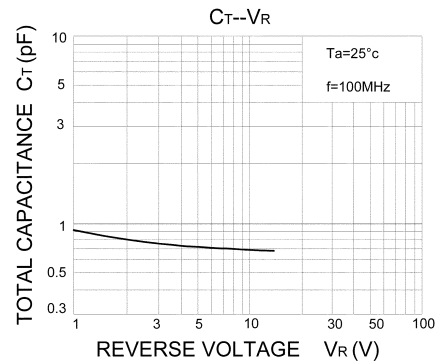
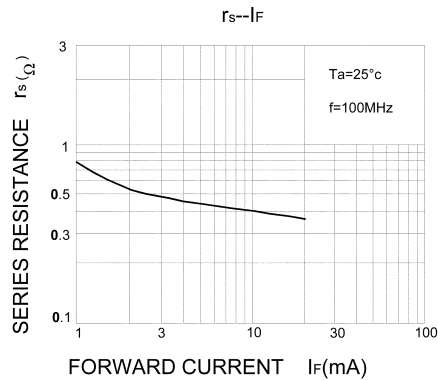
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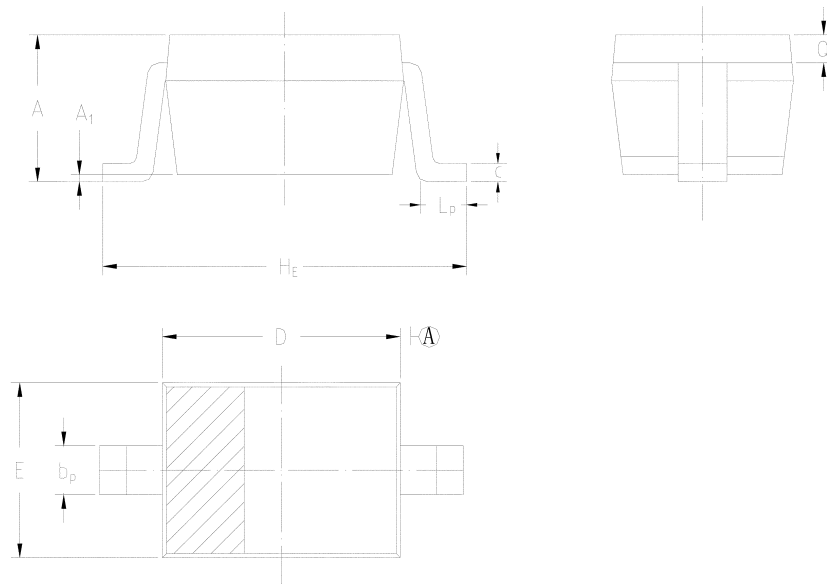
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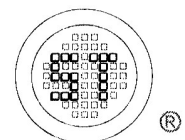
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PACKAGE OUTLINE

SOD-323



UNIT	A	A ₁	b ₀	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.



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