



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

1SV202AWT

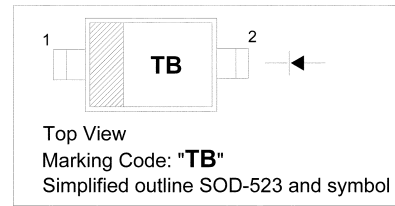
UHF/VHF TUNER VARIABLE CAPACITANCE DIODE

FEATURES

- Low series resistance and good C-V linearity

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

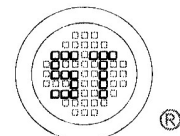


Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	34	V
Operating Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Current at $V_R = 32\text{ V}$ at $V_R = 32\text{ V}$, $T_j = 60^\circ\text{C}$	I_R	- -	10 100	nA
Diode Capacitance at $V_R = 2\text{ V}$, $f = 1\text{ MHz}$ at $V_R = 25\text{ V}$, $f = 1\text{ MHz}$	C_d	14.11 2.06	16.47 2.35	pF
Capacitance Ratio	$C_{d(2V)} / C_{d(25V)}$	6.2	-	-
Capacitance Matching at $V_R = 2\text{ V to } 25\text{ V}$, $f = 1\text{ MHz}$	$\Delta C_d / C_d$	-	2	%
Series Resistance at $f = 470\text{ MHz}$, $V_R = 5\text{ V}$	r_s	-	0.57	Ω



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Dated : 03/05/2006



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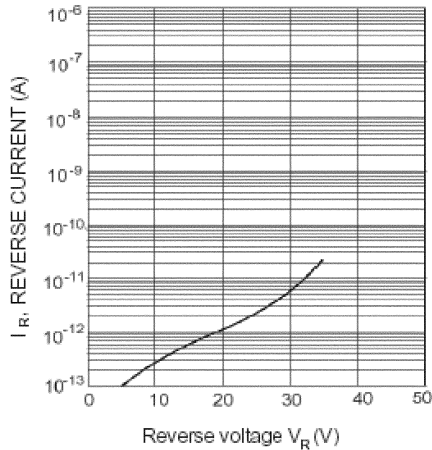


Fig.1 Reverse current Vs. Reverse voltage

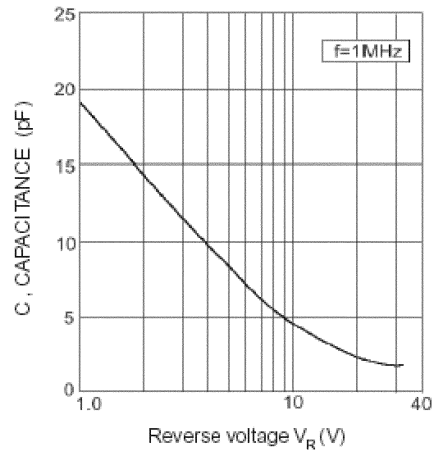


Fig.2 Capacitance Vs. Reverse voltage

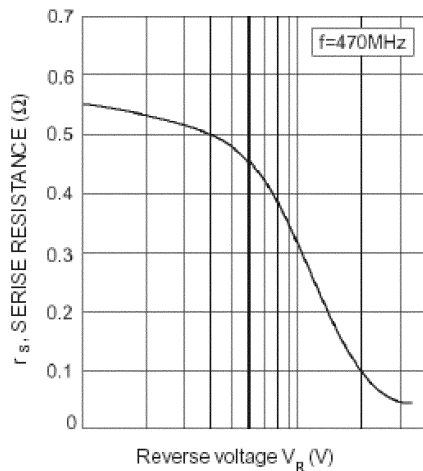


Fig.3 Series resistance Vs. Reverse voltage

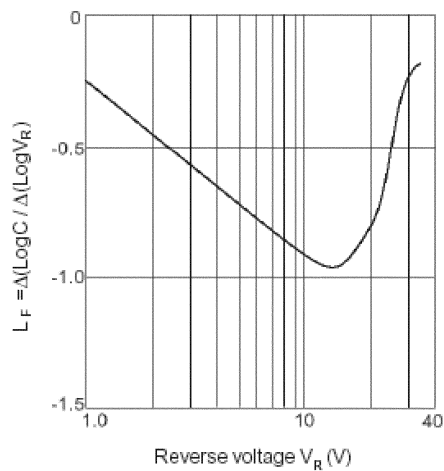
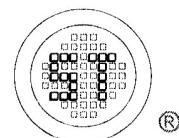


Fig.4 Linearity factor Vs. Reverse voltage



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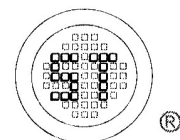
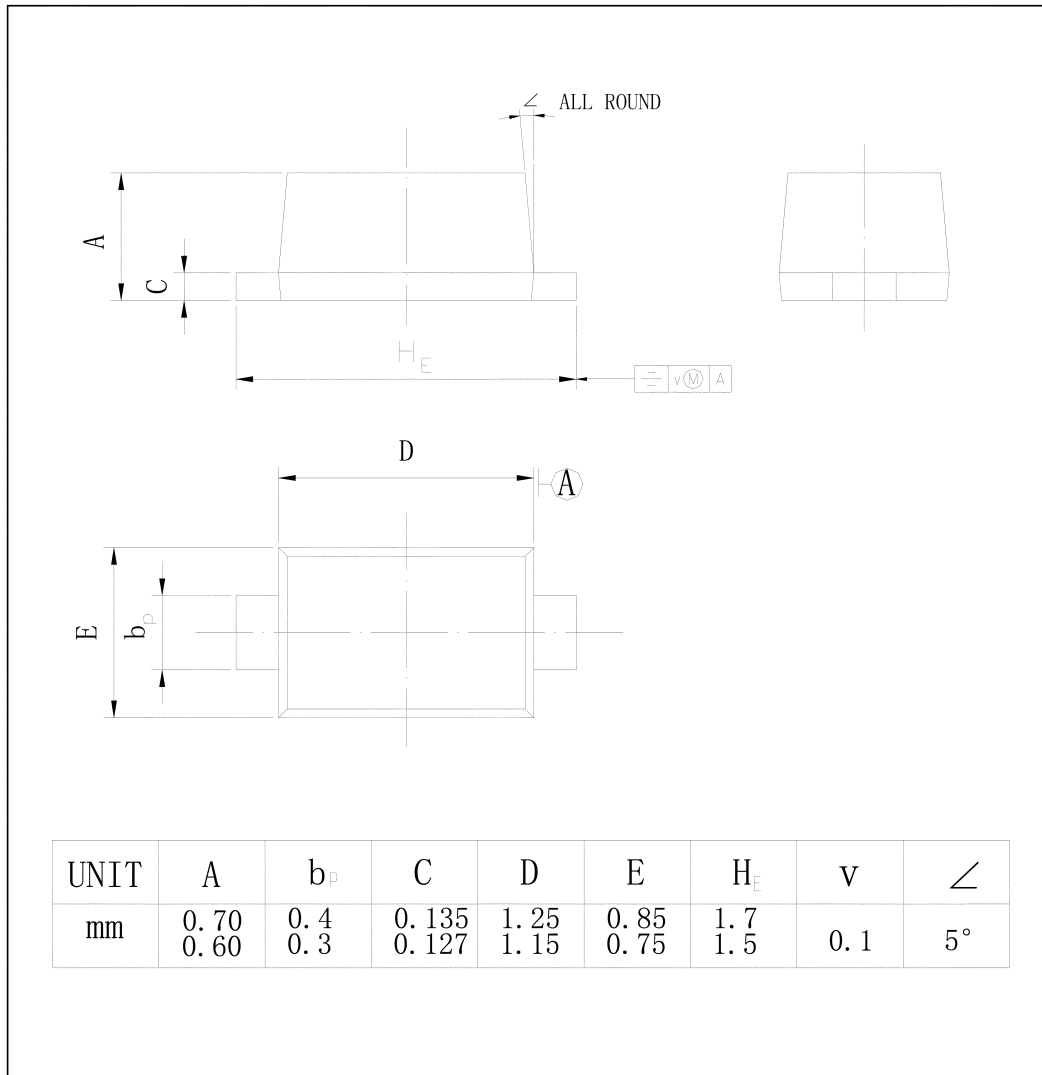
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



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