TOSHIBA 1SV277

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 2 7 7

VCO FOR UHF BAND RADIO

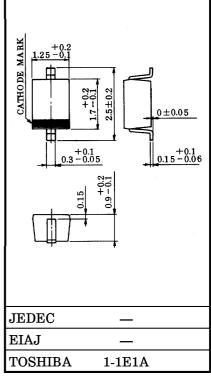
High Capacitance Ratio : $C_{1V}/C_{4V}=2.3$ (Typ.)

 $: r_s = 0.42\Omega \text{ (Typ.)}$ Low Series Resistance

Small Package

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	v_{R}	10	V
Junction Temperature	T_{j}	125	°C
Storage Temperature Range	$ m T_{stg}$	-55~125	°C



Unit in mm

Weight: 0.004g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$v_{ m R}$	$I_R = 1 \mu A$	10	_	_	V
Reverse Current	$I_{ m R}$	$V_R = 10V$	ı	_	3	nA
Capacitance	c_{1V}	$V_R=1V$, f=1MHz	4.0	4.5	4.9	pF
Capacitance	$\mathrm{c_{4V}}$	$V_R=4V, f=1MHz$	1.85	2.0	2.35	pF
Capacitance Ratio	C_{1V}/C_{4V}	_	2.0	2.3	_	_
Series Resistance	$ m r_{S}$	$V_R=1V$, $f=470MHz$	_	0.42	0.55	Ω

MARKING



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