TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SV314

VCO FOR UHF BAND RADIO

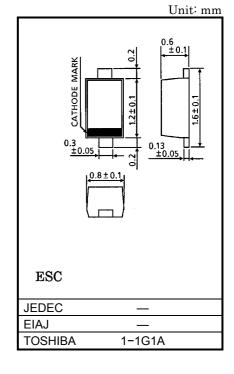
• High Capacitance Ratio : $C_{0.5}$ V / $C_{2.5}$ V = 2.5 (Typ.)

• Low Series Resistance : $r_8 = 0.35 \Omega$ (Typ.)

• Useful for Small Size Tuner

MAXIMUM RATINGS (Ta = 25°C)

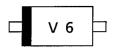
CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_{R}	10	V
Junction Temperature	Tj	125	°C
Storage Temperature Range	T _{stg}	-55~125	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Reverse Voltage	V_{R}	I _R = 1μA	10	_	_	V
Reverse Current	I _R	V _R = 10 V	_	_	3	nA
Capacitance	C _{0.5 V}	V _R = 0.5 V, f = 1 MHz	7.3	_	8.4	pF
Capacitance	C _{2.5 V}	V _R = 2.5 V, f = 1 MHz	2.75	_	3.4	pF
Capacitance Ratio	C _{0.5 V} / C _{2.5 V}	_	2.4	2.5	_	-
Series Resistance	r _S	V _R = 1 V, f = 470 MHz	_	0.35	0.45	Ω

MARKING



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