TOSHIBA Diode Silicon Epitaxial Planar Type

# 1SV325

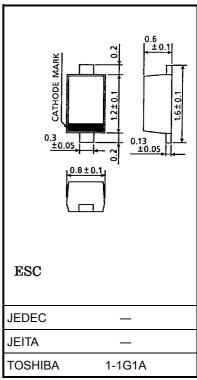
### TCXO/VCO

Unit: mm

- High capacitance ratio:  $C_1 \text{ V}/C_4 \text{ V} = 4.3 \text{ (typ.)}$
- Low series resistance:  $r_s = 0.4 \Omega$  (typ.)
- Useful for small size tuner.

# **Maximum Ratings (Ta = 25°C)**

Characteristics	Symbol	Rating	Unit
Reverse voltage	$V_{R}$	10	V
Junction temperature	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	<b>−55~125</b>	°C



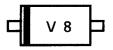
Weight: 0.0014 g (typ.)

## **Electrical Characteristics (Ta = 25°C)**

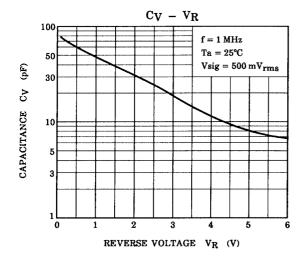
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	$V_{R}$	$I_R = 1 \mu A$	10	_	_	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 10 V	_	_	3	nA
Capacitance	C <sub>1 V</sub>	V <sub>R</sub> = 1 V, f = 1 MHz	44	_	49.5	pF
Capacitance	C <sub>4 V</sub>	V <sub>R</sub> = 4 V, f = 1 MHz	9.2	_	12	pF
Capacitance ratio	C <sub>1 V</sub> /C <sub>4 V</sub>	_	4	4.3	_	_
Series resistance	r <sub>s</sub>	V <sub>R</sub> = 4 V, f = 100 MHz	_	0.4	0.8	Ω

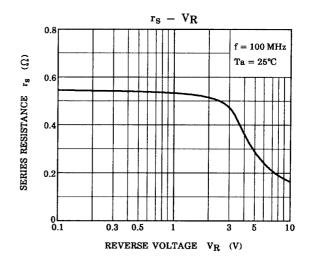
Note: Signal level when capacitance is measured: Vsig = 500 mVfms

### **Marking**



1 2003-03-24





2 2003-03-24

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