imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SV311

VCO for UHF Band Radio

TOSHIBA

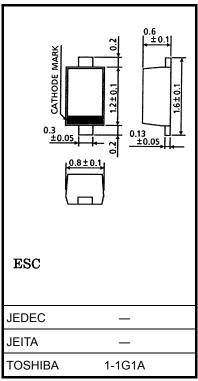
- High capacitance ratio: $C_{1V} / C_{4V} = 2.1$ (typ.)
- Low series resistance: $r_s = 0.28 \Omega$ (typ.)
- Useful for small size tuner

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	10	V
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



Weight: 0.0014 g (typ.)

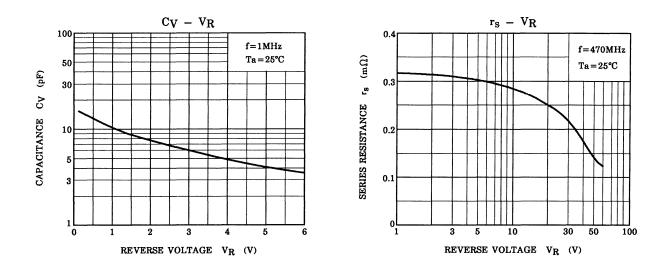
Characteristics Symbol **Test Condition** Min Max Unit Тур. V Reverse voltage V_{R} $I_R = 1 \ \mu A$ 10 ____ Reverse current V_R = 10 V ____ 3 nA I_R $V_R = 1 V, f = 1 MHz$ Capacitance C_{1V} 9.7 11.1 pF Capacitance V_R = 4 V, f = 1 MHz 4.45 5.45 pF C_{4V} Capacitance ratio C_{1V} / C_{4V} 2.1 1.8 0.28 Series resistance rs V_R = 1 V, f = 470 MHz 04 0

Electrical Characteristics (Ta = 25°C)

Marking



TOSHIBA



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