

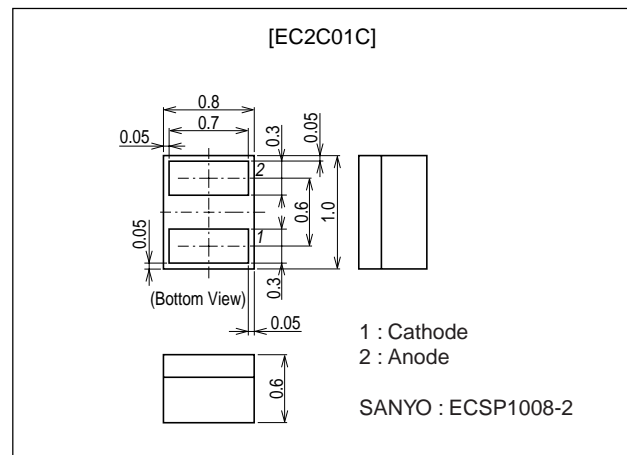
**EC2C01C**

VCXO & VHF Band VCO Applications Varactor Diode

Features

- High capacitance ratio. $C_R(C1.0V / C4.0V)=5.0$ typ
- Ultrasmall-sized package(1008), slim package (0.6mm), leadless package.

Package Dimensions

unit : mm
1324

Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		15	V
Junction Temperature	T_J		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	15			V
Reverse Current	I_R	$V_R=15\text{V}$			20	nA
Interterminal Capacitance	C1.0V	$V_R=1.0\text{V}, f=1\text{MHz}^*$	18.5		21.5	pF
	C4.0V	$V_R=4.0\text{V}, f=1\text{MHz}$	3.5		4.5	pF
Capacitance Ratio	C_R	C1.0V/C4.0V		5.0		
Series Resistance	r_s	$V_R=1.0\text{V}, f=470\text{MHz}$		1.4		Ω

* : A signal at 1MHz is 20mVrms.

Marking : Q

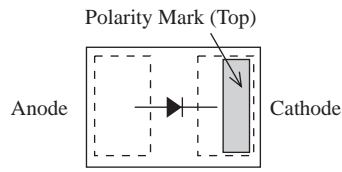
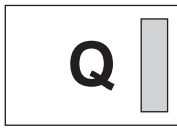
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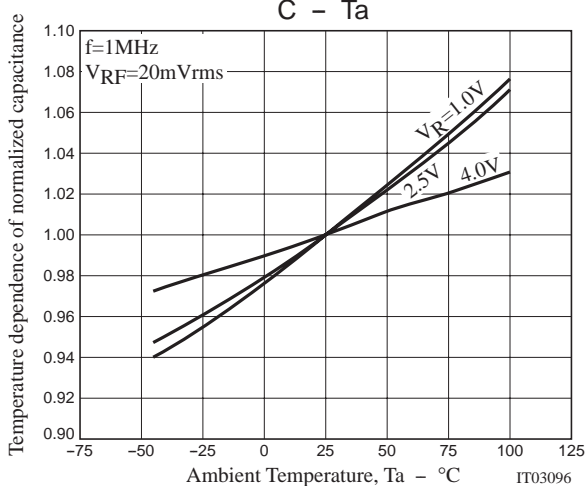
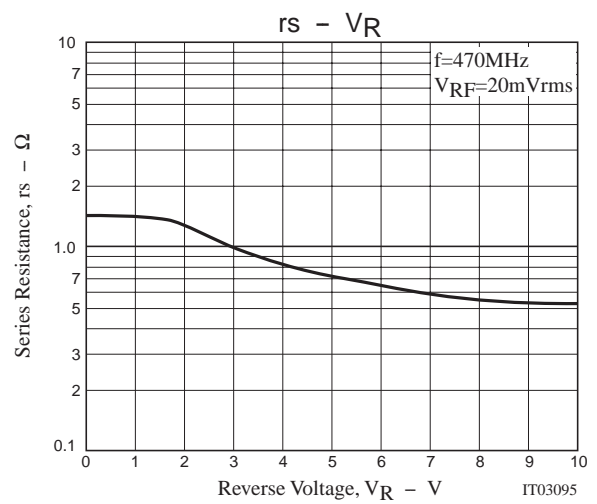
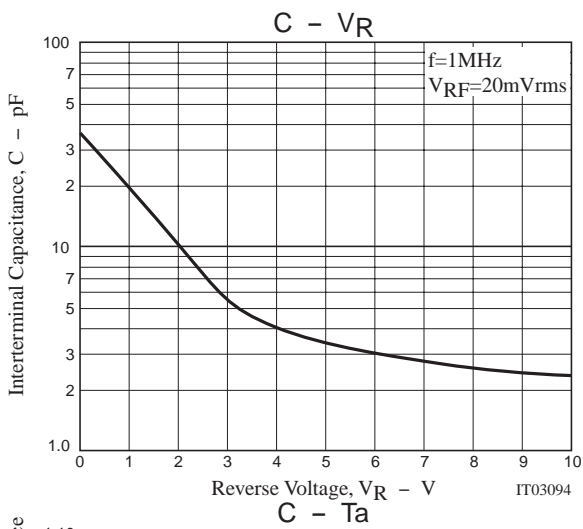
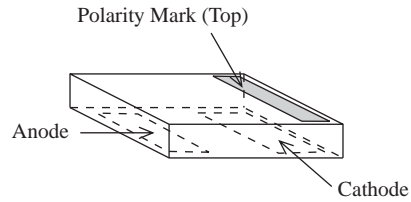
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71003 TS IM TA-100684 / 52501 GI IM TA-3094 No.6966-1/3

Type No. Indication(Top view)



*Electrodes : on the bottom



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