

**EC2C01C**

## VCXO & VHF Band VCO Applications Varactor Diode

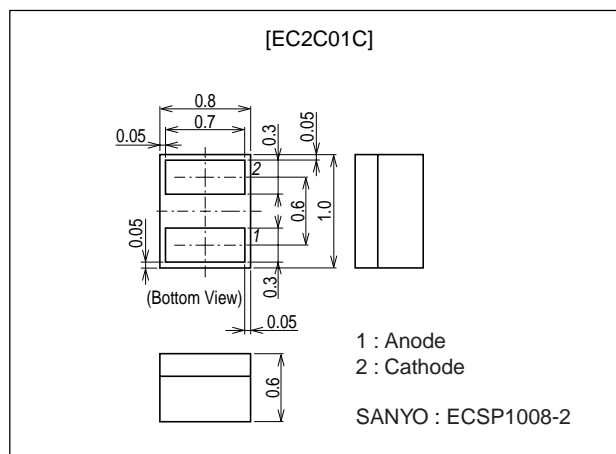
### Features

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

### Package Dimensions

unit : mm

1308



### 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 $T_a=25^\circ\text{C}$

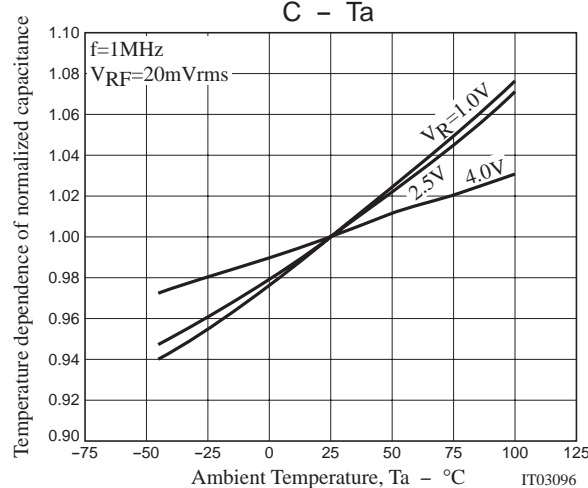
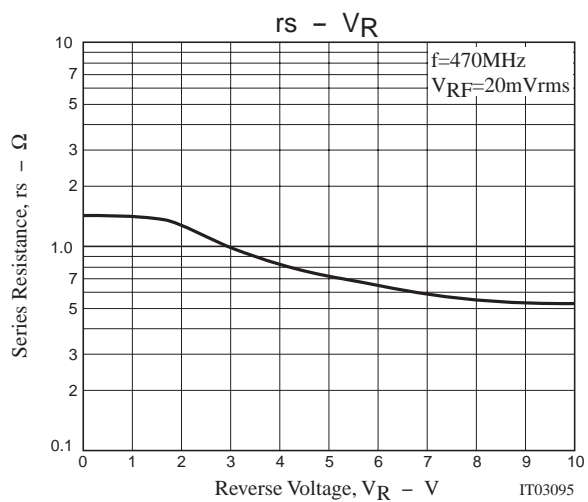
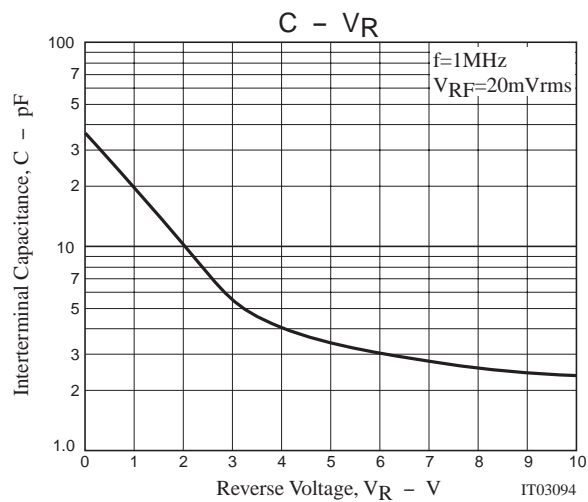
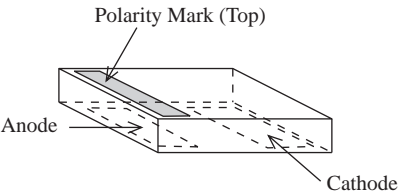
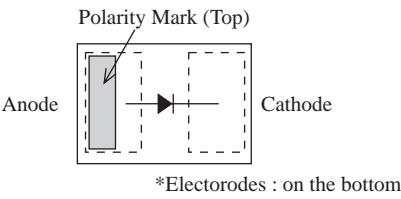
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	15			V
Reverse Current	$I_R$	$V_R=15\text{V}$			20	nA
Interterminal Capacitance	C1.0V	$V_R=1.0\text{V}$ , $f=1\text{MHz}^*$	18.5		21.5	pF
	C4.0V	$V_R=4.0\text{V}$ , $f=1\text{MHz}$	3.5		4.5	pF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

\* : A signal at 1MHz is 20mVrms.

Marking : Q

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Type No. Indication(Top view)



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