

Ordering number : ENN8237



SANYO Semiconductors

DATA SHEET

EC2C03C — Variable Capacitance Diode for UHF Band VCO

Diffused Junction Type Silicon Diode

Applications

- 0.8 to 1.9GHz band VCO applications.

Features

- Low series resistance. $r_s=0.55\Omega$ typ.
- Ultraminiature (1008size) and (0.6mm) leadless package.

Specifications

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

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

Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	15			V
Reverse Current	I_R	$V_R=10V$			200	nA
Interterminal Capacitance	C1.0V	$V_R=1.0V, f=1MHz^*$	6.5		8.2	pF
	C3.0V	$V_R=3.0V, f=1MHz$	4.0		5.2	pF
Capacitance Ratio	C_R	C1.0V / C3.0V		1.6		
Series Resistance	r_s	$V_R=1.0V, f=470MHz$		0.55	0.75	Ω

Marking : VA

* 1MHz signal : 20mVrms

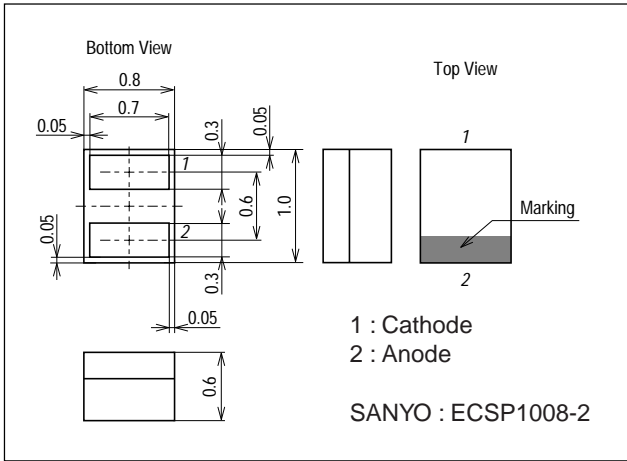
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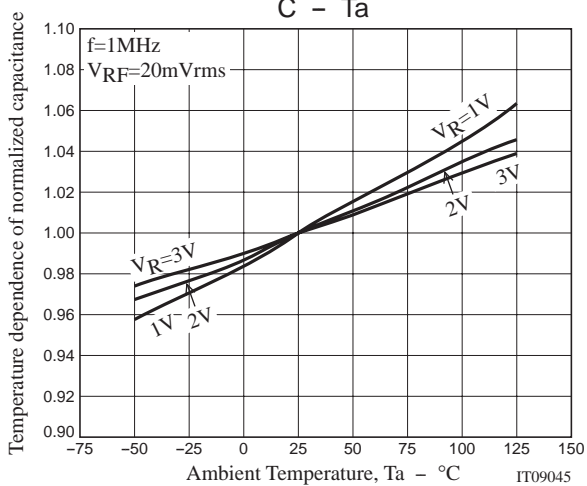
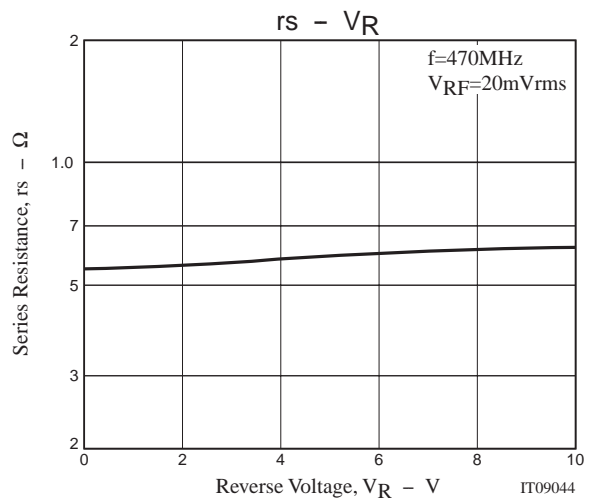
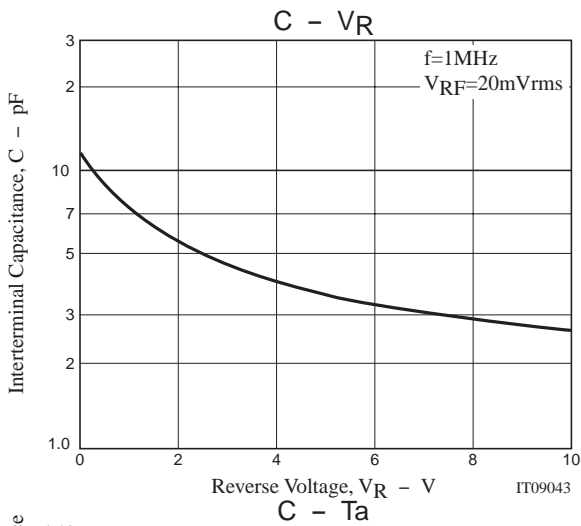
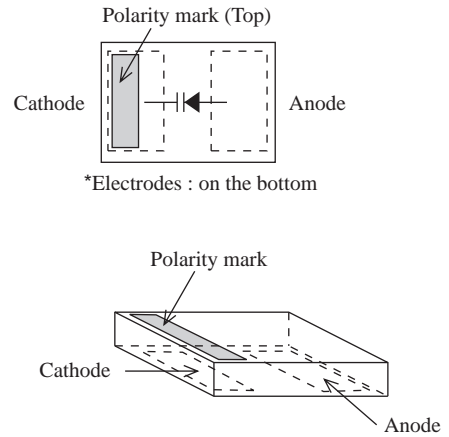
EC2C03C

Package Dimensions

unit : mm
1324A



Electrical Connection (Top view)



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