Unit in mm

Variable Capacitance Diode

Silicon Epitaxial Planar Type

VCO For UHF Ratio

Features

- Ultra Low Series Resistance : $r_{\rm S} = 0.2 \Omega ({\rm Typ.})$ Useful for Small Size Set

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Reverse Voltage	V _R	15	V	
Junction Temperature	T _j	125	°C	
Storage Temperature Range	T _{stg}	-55 ~ 125	°C	

0.8 ± 0.1 CATHODE MARK 2.1 ± 0.1 1.3 ± 0.1 0 ± 0.05 $0.13 \stackrel{+0.1}{-0.05}$ 0.3 ± 0.05

1-1F1A

Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V _R	$I_R = 1\mu A$	15	-	-	V
Reverse Current	I _R	V _R = 15V	-	-	3	nA
Capacitance	C2V	$V_R = 2V$, $f = 1MHz$	14	15	16	pF
Capacitance	C10V	V _R = 10V, f = 1MHz	5.5	6	6.5	pF
Capacitance Ratio	C2V/C10V	-	2.0	2.5	-	-
Series Resistance	rs	V _R = 5V, f = 470MHz	_	0.2	0.4	Ω

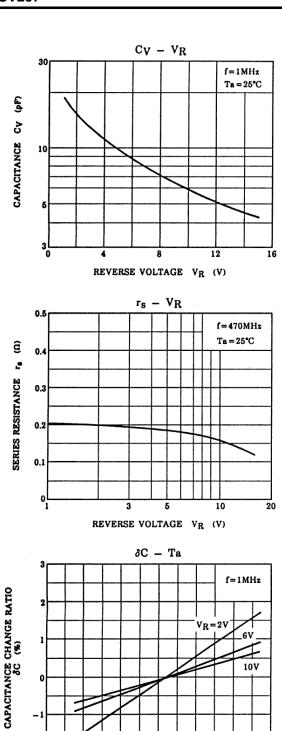
Marking

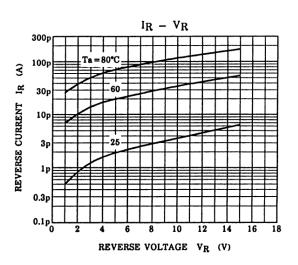
JEDEC EIAJ

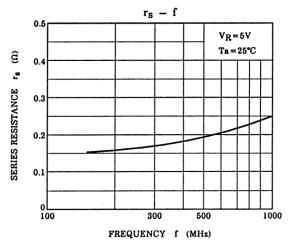
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NOTE:
$$\delta_{\rm C}$$
 (%) = $\frac{{\rm C} ({\rm Ta}) - {\rm C} (25)}{{\rm C} (25)} \times 100$

The information contained here is subject to change without notice.

0

20

AMBIENT TEMPERATURE Ta (°C)

40

-2L -40

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10V

80

60

2/2