

### Variable Capacitance Diode

### Silicon Epitaxial Planar Type

### VCO For UHF Ratio

#### Features

- Ultra Low Series Resistance :  $r_s = 0.2\Omega$ (Typ.)
- Useful for Small Size Set

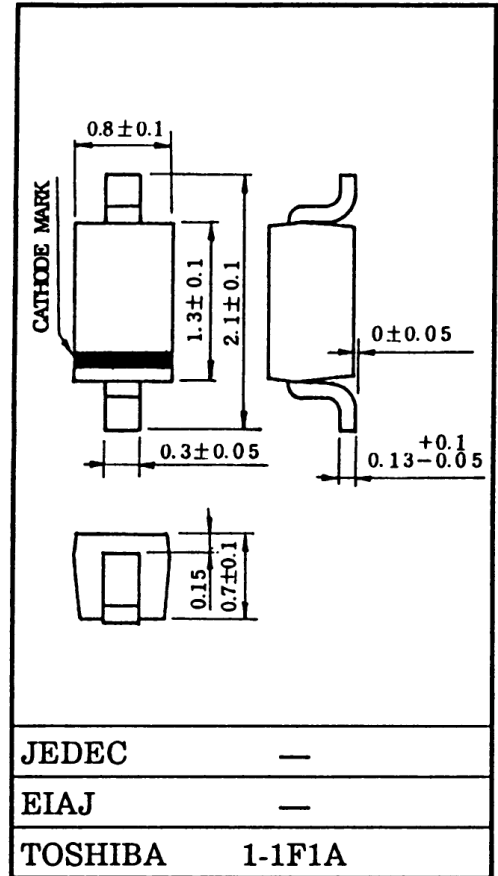
#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	15	V
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 125	$^\circ\text{C}$

#### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

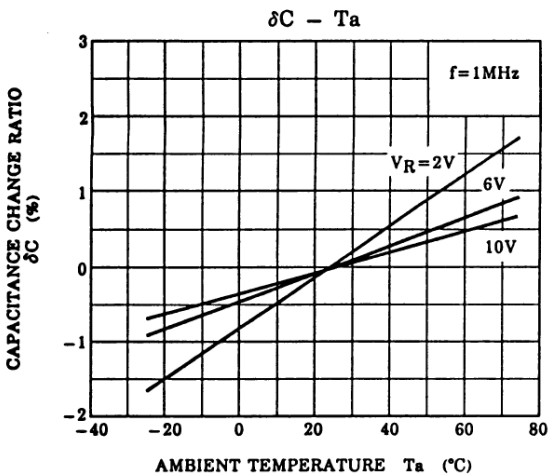
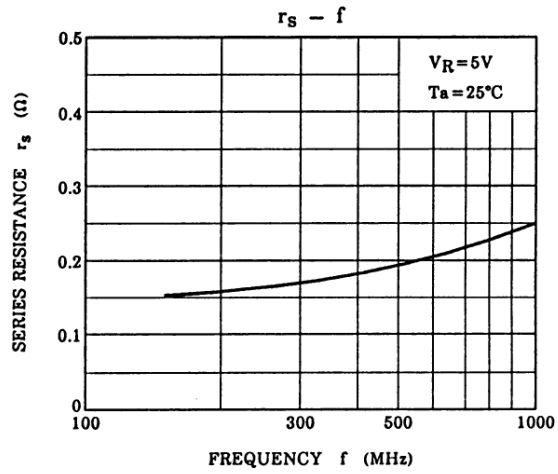
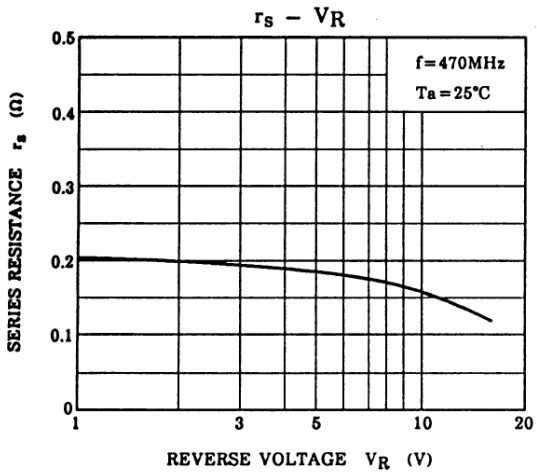
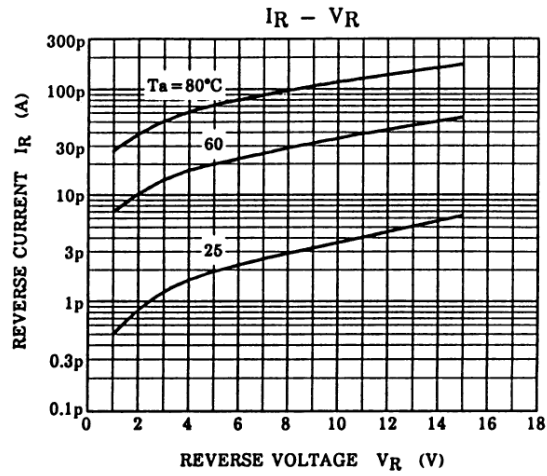
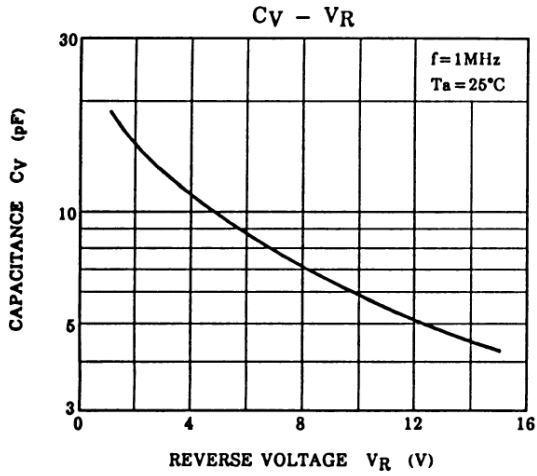
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 1\mu\text{A}$	15	-	-	V
Reverse Current	$I_R$	$V_R = 15\text{V}$	-	-	3	nA
Capacitance	C2V	$V_R = 2\text{V}, f = 1\text{MHz}$	14	15	16	pF
Capacitance	C10V	$V_R = 10\text{V}, f = 1\text{MHz}$	5.5	6	6.5	pF
Capacitance Ratio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

Unit in mm



#### Marking





NOTE :  $\delta C (\%) = \frac{C(T_a) - C(25)}{C(25)} \times 100$

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