

## Features

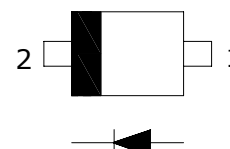
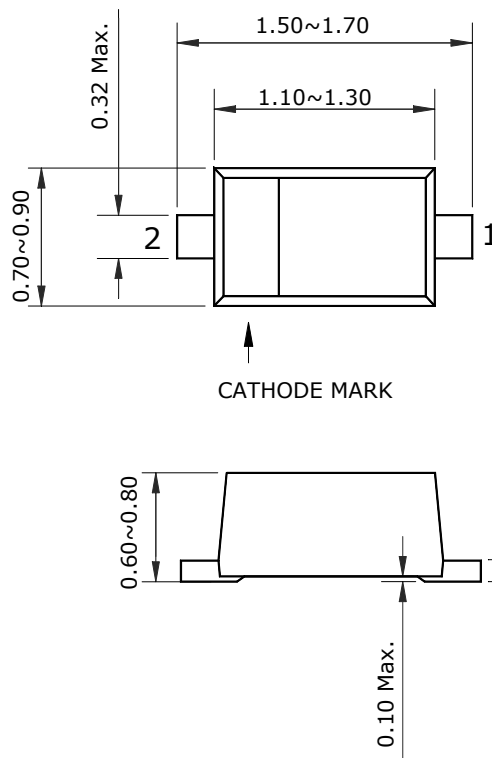
- Suitable for UHF / VHF band VCO.
- High Capacitance Ratio :  $C_{1V}/C_{4V}=2.0$ (Typ.)
- Low series resistance :  $r_s=0.3\Omega$ (Typ.)
- Useful for Small Size Tuner.

## Ordering Information

Type No.	Marking	Package Code
SDV711Q	VB	SOD-523

## Outline Dimensions

unit : mm



### PIN Connections

1. Anode
2. Cathode

**SDV711Q****Absolute maximum ratings**

(Ta=25°C)

Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	$V_R$	10	V
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

**Electrical Characteristics**

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	$V_R$	$I_R = 1\mu A$	10	-	-	V
Reverse current	$I_R$	$V_R = 10V$	-	-	3	nA
Total Capacitance	$C_{1V}$	$V_R = 1V, f = 1MHz$	15	-	17	pF
	$C_{4V}$	$V_R = 4V, f = 1MHz$	7.3	-	8.7	pF
Capacitance Ratio	$C_{1V/4V}$	-	1.8	2.0	-	
Series resistance	$r_S$	$V_R = 1V, f = 470MHz$	-	0.3	0.5	$\Omega$

## Electrical Characteristic Curves

Fig. 1  $C_T - V_R$

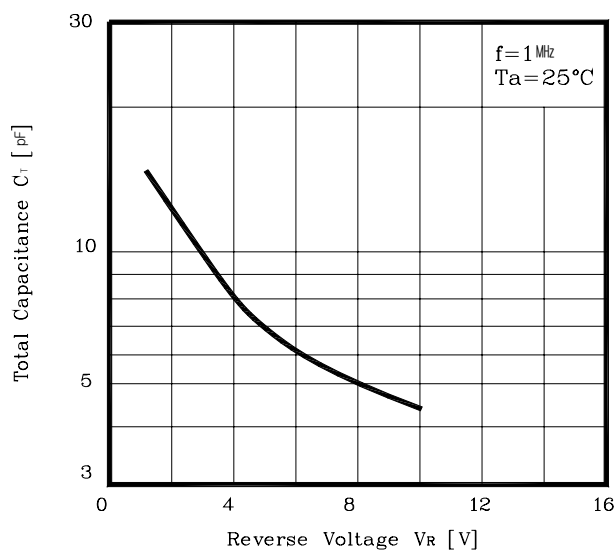


Fig. 2  $I_R - V_R$

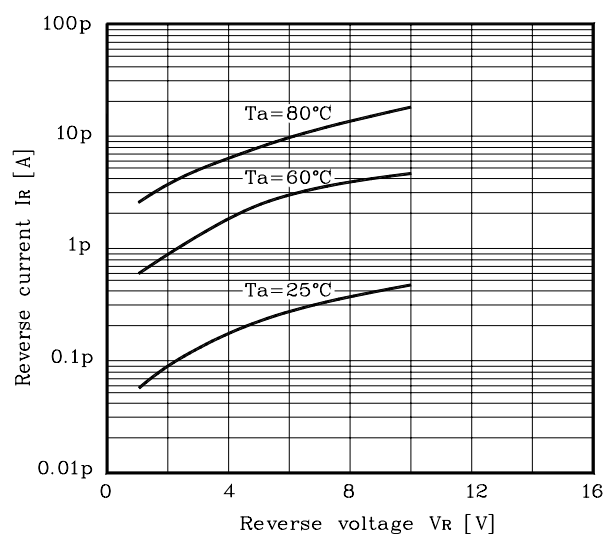


Fig. 3  $r_s - V_R$

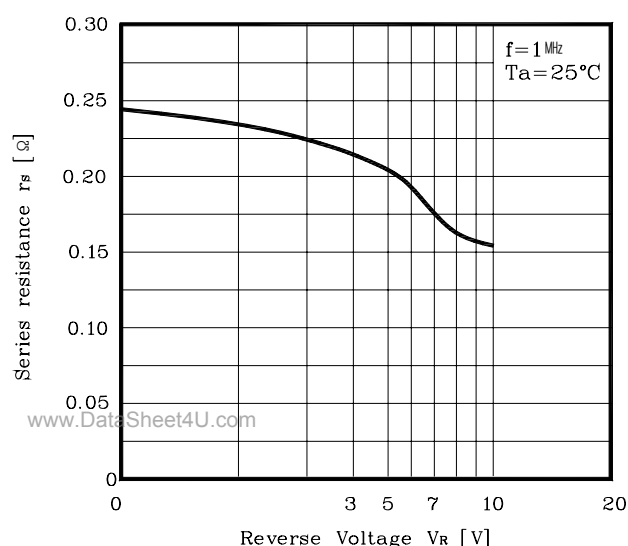
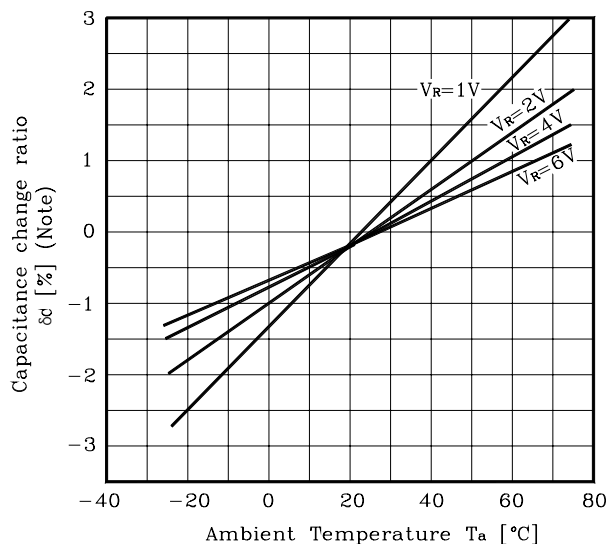


Fig. 4  $\delta_C - T_a$



$$\text{Note : } \delta_C = \frac{C(T_a) - C(25)}{C(25)} \times 100(\%)$$

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