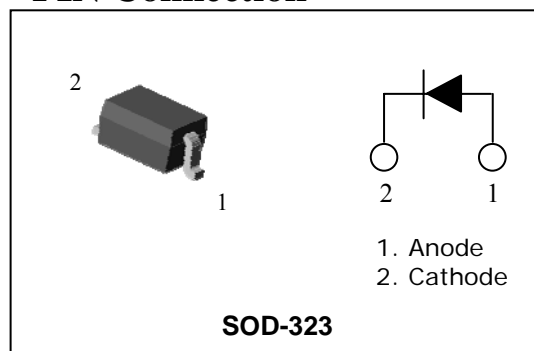


## Features

- Extremely small size package:  
1.7×1.25×0.9 mm Typ.
- VHF tuner band switch applications.
- Very Low series resistance :  
 $r_s = \text{Typ } 0.5\Omega @ I_F=2\text{mA}$
- Low total capacitance :  
 $C_T = 1.2\text{pF (Max.)}$

## PIN Connection



## Ordering Information

Type NO.	Marking	Package Code
SDP411D	$\frac{L1}{\text{① ②}}$	SOD-323

① Device Code ② Year & Week Code

## Absolute Maximum Ratings

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

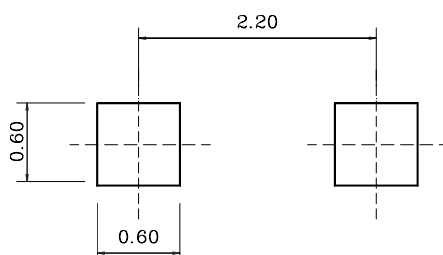
Characteristic	Symbol	Rating	Unit
Continuous reverse voltage	$V_R$	30	V
Forward current	$I_F$	100	mA
Junction temperature	$T_J$	150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$

## Electrical Characteristics

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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=2\text{mA}$	-	-	0.85	V
Reverse current	$I_R$	$V_R=15\text{V}$	-	-	0.1	$\mu\text{A}$
Reverse voltage	$V_R$	$I_R=1\mu\text{A}$	30	-	-	V
Total capacitance	$C_T$	$V_R=6\text{V}, f=1\text{MHz}$	-	0.8	1.2	pF
Series resistance	$r_s$	$I_F=2\text{mA}, f=100\text{MHz}$	-	0.5	0.9	$\Omega$

※ Recommend PCB solder land (Unit : mm)



Electrical Characteristic Curves

Fig. 1  $r_s - I_F$

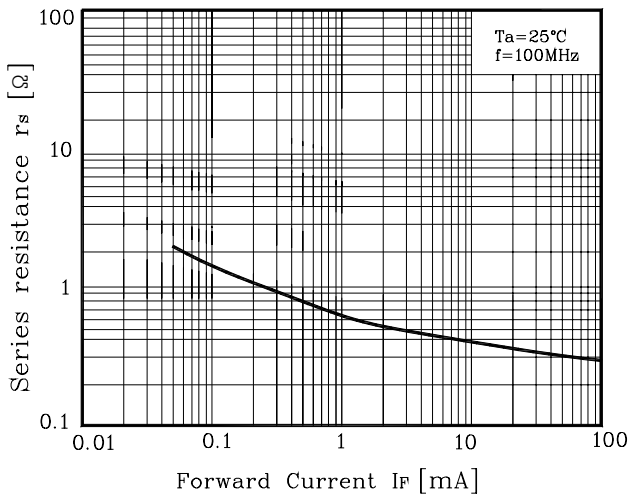


Fig. 2  $C_T - V_R$

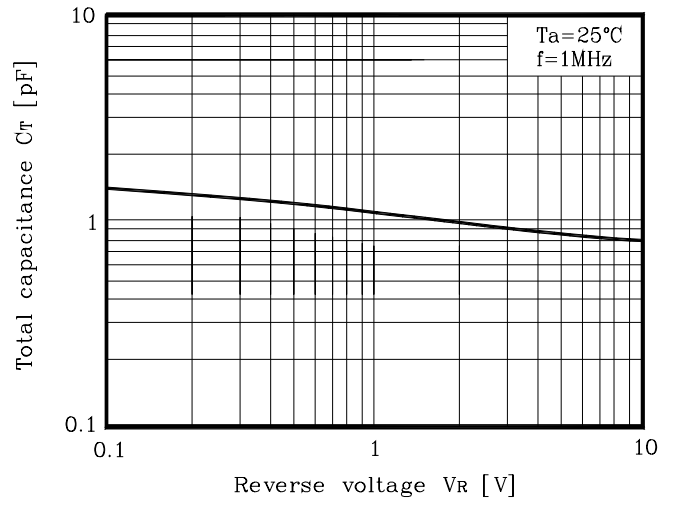


Fig. 3  $I_F - V_F$

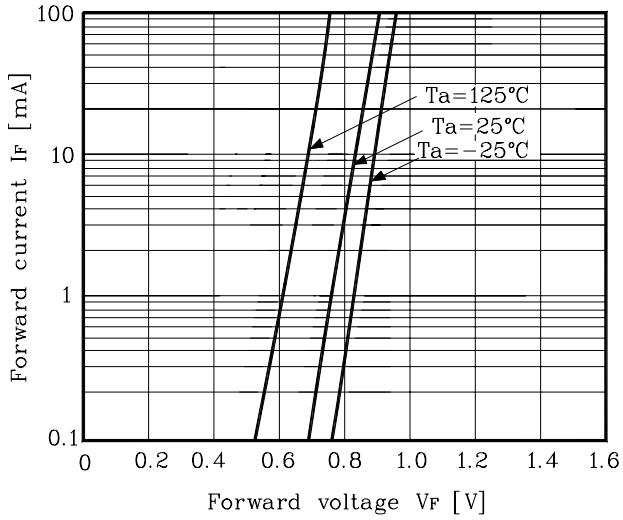
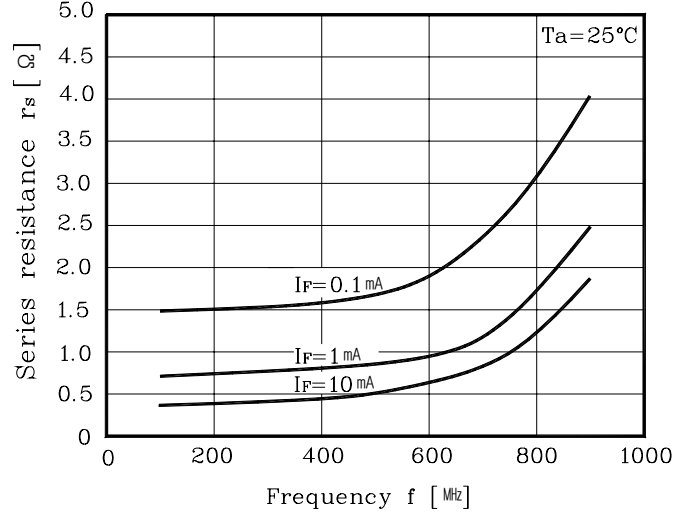
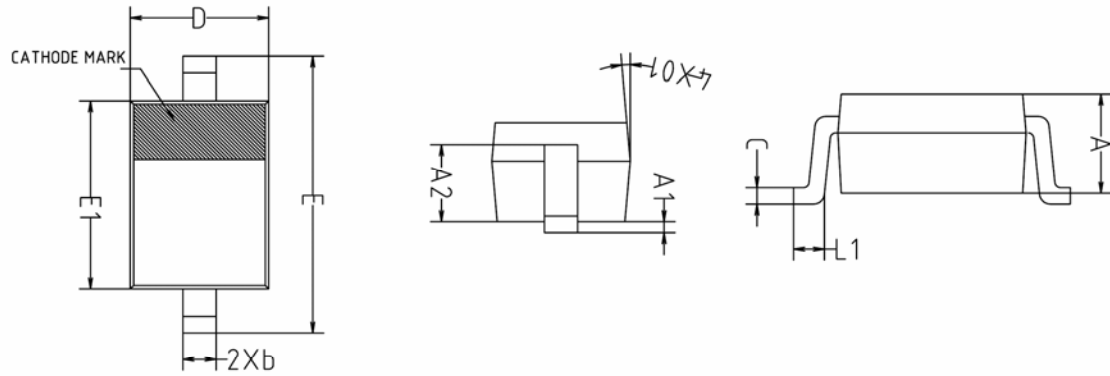


Fig. 4  $r_s - f$



## Outline Dimension



SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	
A	0.850	-	0.950	
A1	0.000	-	0.100	
A2	0.650	0.700	0.750	
b	0.250	0.300	0.350	
c	0.110	0.150	0.190	
D	1.200	1.250	1.300	
E	2.400	2.500	2.600	
E1	1.650	1.700	1.750	
L1	0.200	-	0.300	
$\theta 2$	5° REF			

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