

**Features**

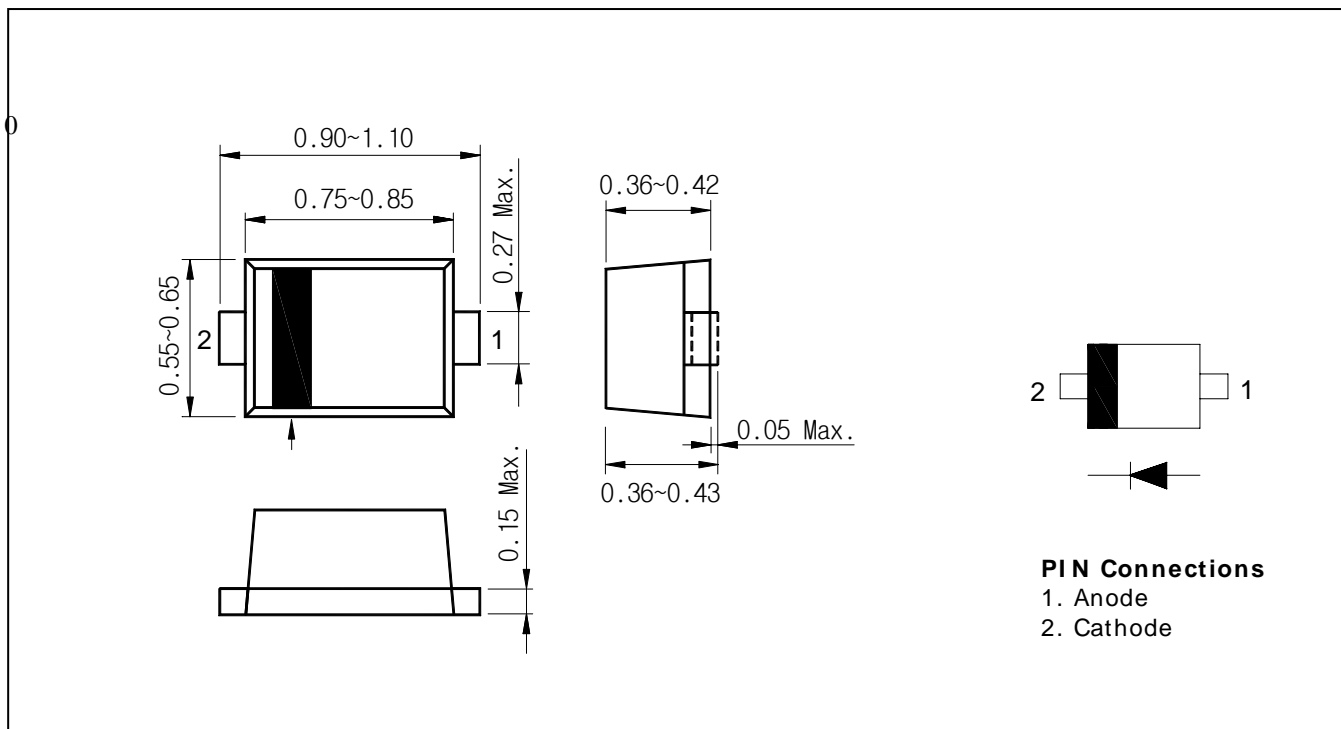
- Low capacitance : Max.0.4pF
- Low series resistance :  $r_s = 1.0\Omega$ (Typ.) @  $I_F = 10\text{mA}$
- UHF/VHF Band RF Switch Applications

**Ordering Information**

Type No.	Marking	Package Code
ND102	S	SOD-923

**Outline Dimensions**

unit : mm



## Absolute Maximum Ratings

(Ta=25°C)

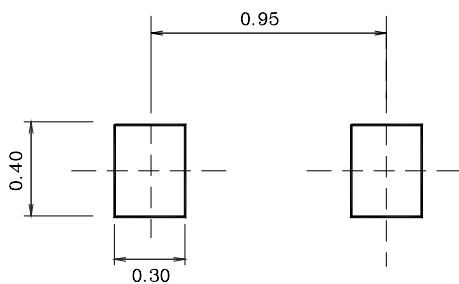
Characteristic	Symbol	Rating	Unit
Continuous reverse voltage	$V_R$	30	V
Forward current	$I_F$	50	mA
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55 ~ 150	°C

## Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	$V_R$	$I_R = 10\mu A$	30	-	-	V
Reverse current	$I_R$	$V_R = 30V$	-	-	0.1	$\mu A$
Forward voltage	$V_F$	$I_F = 50mA$	-	0.9	-	V
Total capacitance	$C_T$	$V_R = 1V, f = 1MHz$	-	0.3	0.4	pF
Series resistance	$r_S$	$I_F = 10mA, f = 100MHz$	-	1.1	1.5	$\Omega$
Insertion Loss	$ S_{21} ^2$	$I_F = 1mA, f = 1.8GHz$ $I_F = 5mA, f = 1.8GHz$ $I_F = 10mA, f = 1.8GHz$	-	-0.23	-	dB
			-	-0.1	-	dB
			-	-0.08	-	dB
Isolation	$ S_{12} ^2$	$V_R = 0V, f = 0.9GHz$ $V_R = 0V, f = 1.8GHz$ $V_R = 0V, f = 2.4GHz$	-	-19	-	dB
			-	-14	-	dB
			-	-11	-	dB

※ Recommend PCB solder land (Unit : mm)



## Electrical Characteristic Curves

Fig. 1  $r_s - I_F$

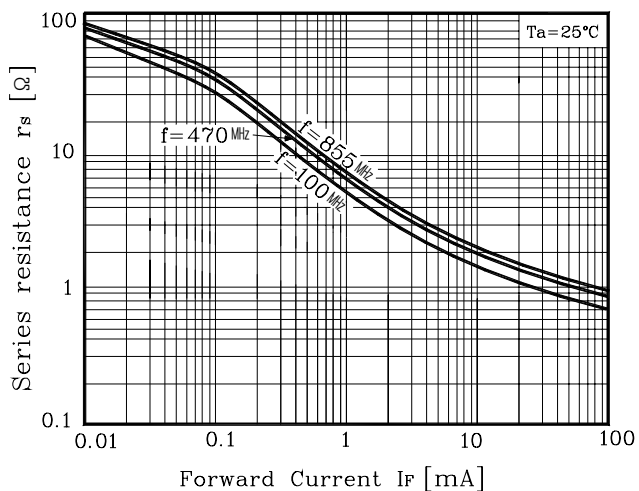


Fig. 2  $C_T - V_R$

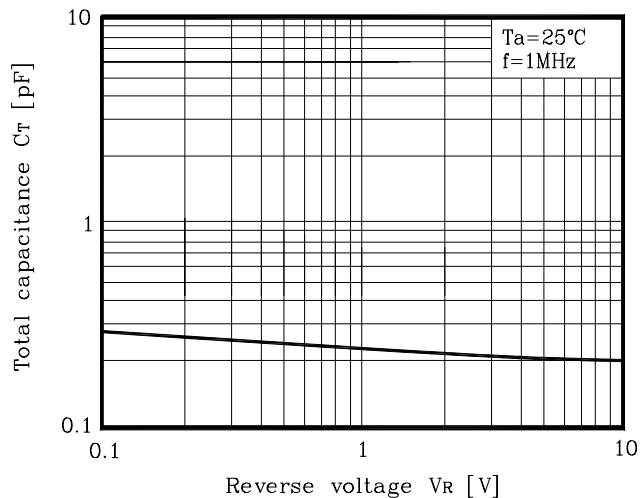


Fig. 3  $I_F - V_F$

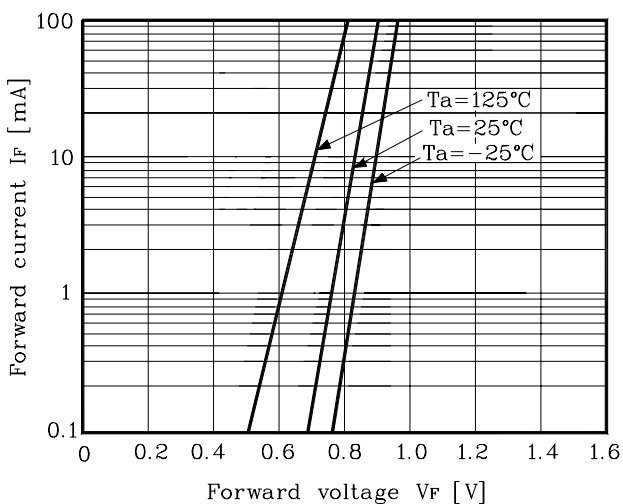


Fig. 4 Insertion Loss  $|S_{21}|^2 = f(f)$

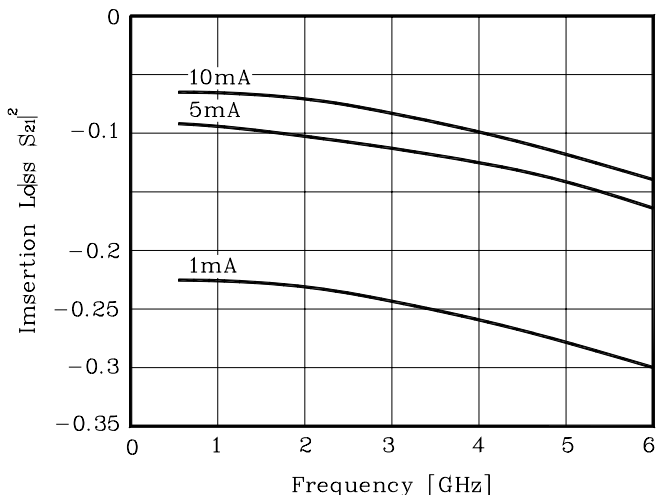
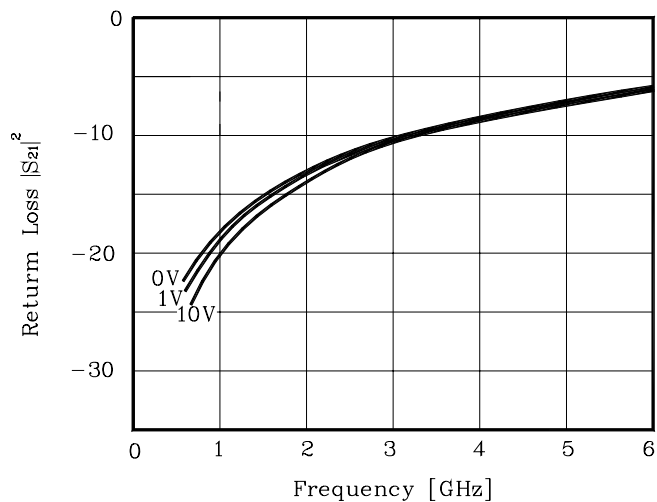


Fig. 5 Isolation  $|S_{12}|^2 = f(f)$



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