

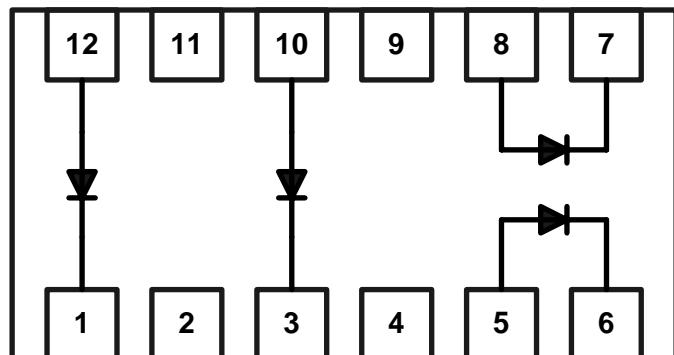
Features

- 4 channel 1 package type Antenna Switching Diode Array
- Low capacitance : Max.0.35pF
- Low series resistance : $r_s = 1.1\Omega$ (Typ.)@ $I_F = 10mA$
- ASM/FEM Module RF Switch Applications [Dual-Band Switching Diode]

Ordering Information

Type No.	Marking	Package Code
ND102M4L	AM4	12PDFN

Pin Assignment



Pin Assignment

[Top View]

Absolute Maximum Ratings

(Ta=25°C)

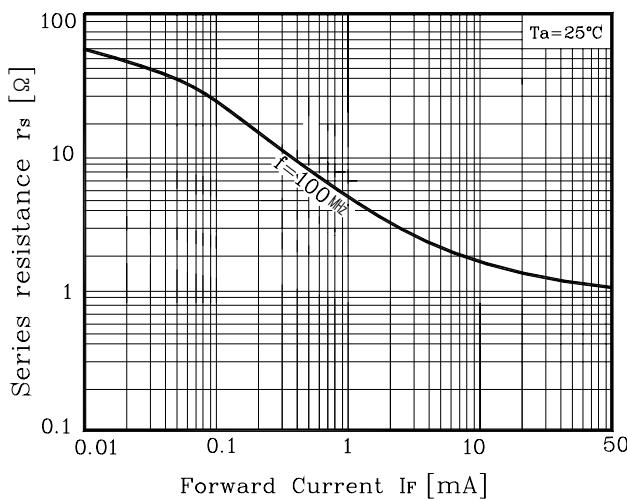
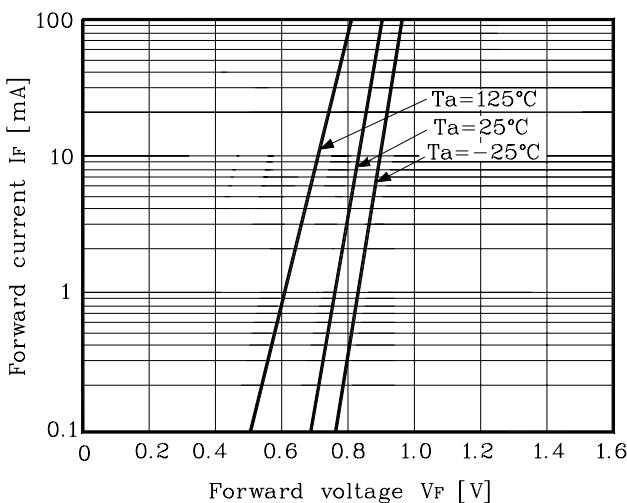
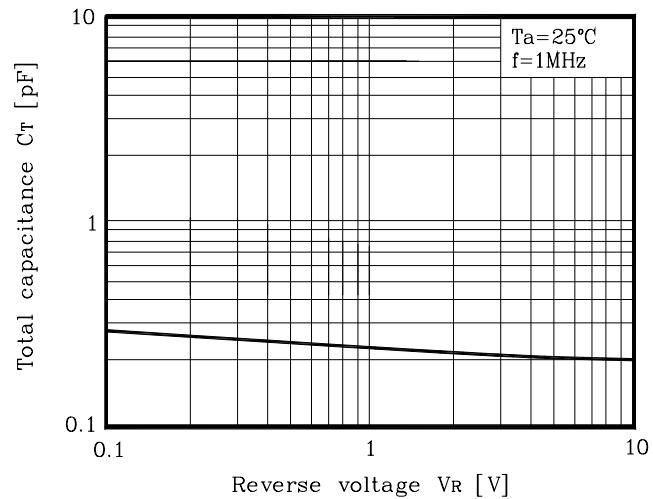
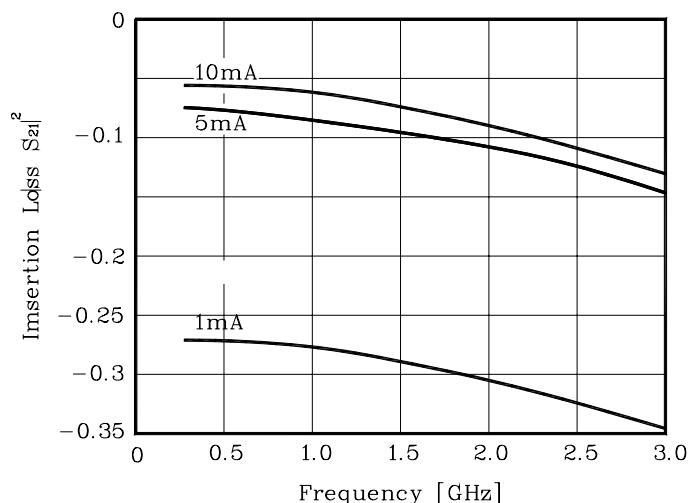
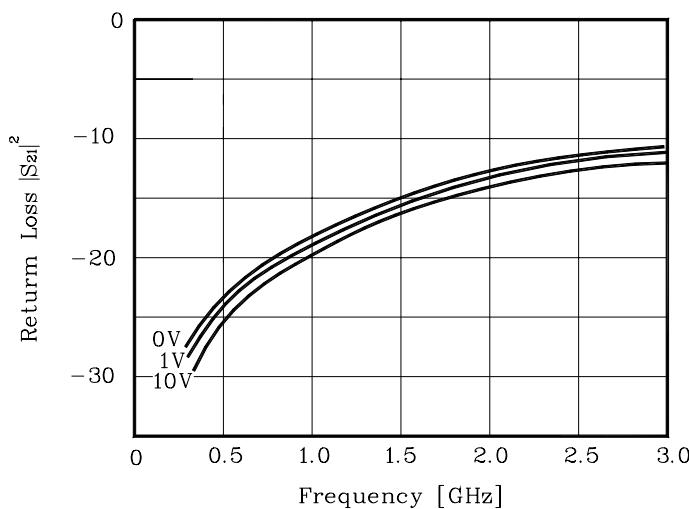
Characteristic	Symbol	Rating	Unit
Continuous reverse voltage	V _R	30	V
Forward current	I _F	50	mA
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-55 ~ 150	°C

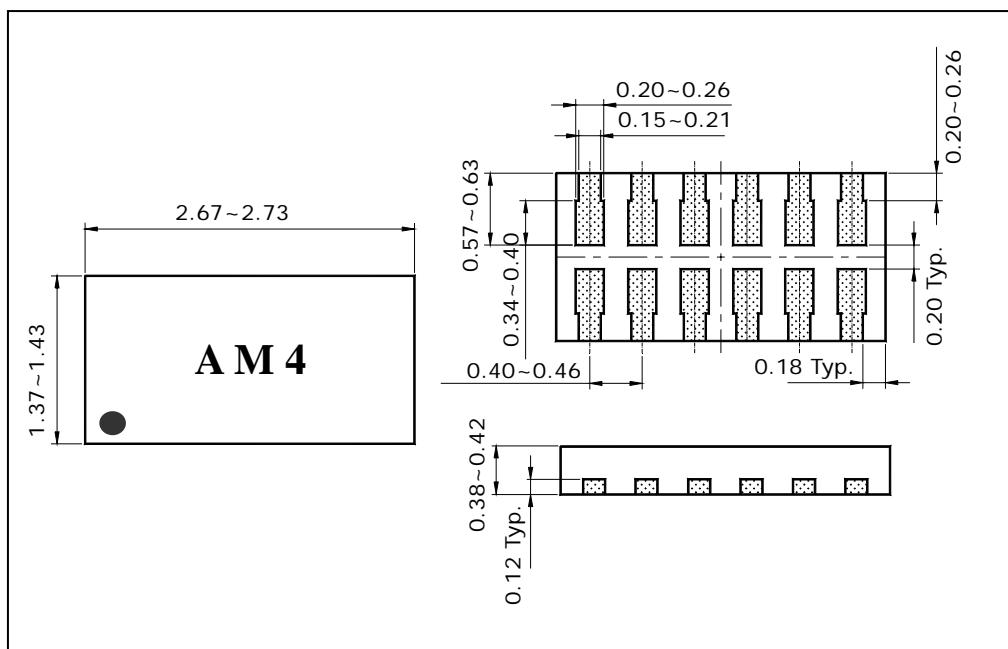
Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V _R	I _R = 10µA	30	-	-	V
Reverse current	I _R	V _R = 30V	-	-	0.1	µA
Forward voltage	V _F	I _F = 50mA	-	0.90	-	V
Total capacitance	C _T	V _R = 1V, f= 1MHz	-	0.3	0.35	pF
Series resistance	r _S	I _F = 10mA, f= 100MHz	-	1.1	1.5	Ω
Insertion Loss	S ₂₁ ²	I _F = 1mA, f = 1.8GHz	-	-0.23	-	dB
		I _F = 5mA, f = 1.8GHz	-	-0.1	-	dB
		I _F = 10mA, f = 1.8GHz	-	-0.08	-	dB
Isolation [Return Loss]	S ₁₂ ²	V _R = 0V, f = 0.9GHz	-	-19	-	dB
		V _R = 0V, f = 1.8GHz	-	-14	-	dB
		V _R = 0V, f = 2.4GHz	-	-11	-	dB

Electrical Characteristic Curves

Fig. 1 r_s - I_F

Fig. 3 I_F - V_F

Fig. 2 C_T - V_R

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

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


Outline Dimensions [unit : mm]

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