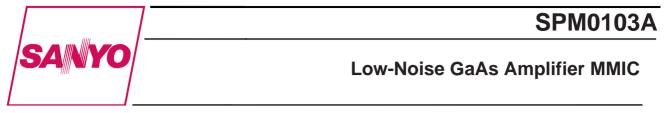
GaAS MMIC



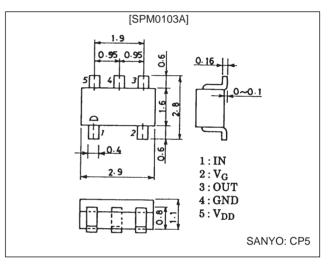
### Features

- Low-voltage, low-current operation
- Compact mini-mold package
- No matching circuits needed for I/O
- Low noise
- Ideal for use as first stage for mobile communications receiver amplifier

## **Package Dimensions**

unit: mm

7272-CP5



# Specifications

#### Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Power supply voltage	V <sub>DD</sub>		5	V
Gate voltage	V <sub>G</sub>		-2	V
Allowable power dissipation	PD		0.25	W
Operating temperature	Topr	$V_{DD}$ = 3 V, I <sub>D</sub> = 60 mA or less	-30 to +90	°C
Storage temperature	Tstg		-55 to +150	°C
Junction temperature	Tj		150	°C

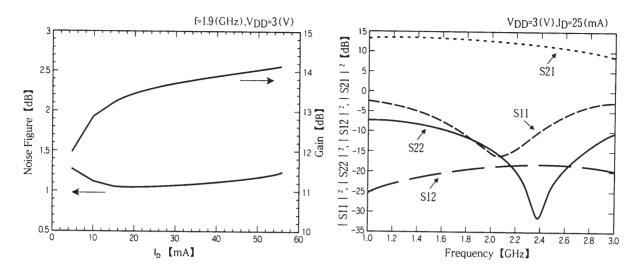
### Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Drain current t	ID	$V_{DD} = 3 V, V_G = 0$	50	70	95	mA
Noise figure	NF	$V_{DD} = 3 V, I_D = 25 mA, f = 1.9 GHz$		1.1	1.5	dB
Linear gain	GL	$V_{DD} = 3 V, I_D = 25 mA, f = 1.9 GHz$		12		dB
VSWR (input)		$V_{DD} = 3 V, I_D = 25 mA, f = 1.9 GHz$		2.1		
VSWR (output)		V <sub>DD</sub> = 3 V, I <sub>D</sub> = 25 mA, f = 1.9 GHz		2.1		

Individual component name indication: MJ

#### **Current-Dependent Characteristics**

#### **Frequency Characteristics**



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