



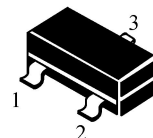
# 桂林斯壯微電子有限責任公司

## Guilin Strong Micro-Electronics Co.,Ltd.

GM9012(銷售型號 S9012)

SOT-23

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



### ■FEATURES 特點

**PNP Low Frequency Amplifier Transistor**

### ■MAXIMUM RATINGS 最大額定值(T<sub>a</sub>=25°C)

Characteristic 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Base voltage 集電極-基極電壓	V <sub>CBO</sub>	-40	Vdc
-Collector-Emitter Voltage 集電極-發射極電壓	V <sub>CEO</sub>	-30	Vdc
Emitter-Base voltage 發射極-基極電壓	V <sub>EBO</sub>	-5.0	Vdc
Collector Current-Continuous 集電極電流-連續	I <sub>c</sub>	-500	mAdc
Base-Current 基極電流	I <sub>B</sub>	-50	mAdc
Collector Power Dissipation 集電極耗散功率	P <sub>C</sub>	300	mW
Junction Temperature 結溫	T <sub>j</sub>	150	°C
Storage Temperature Range 儲存溫度	T <sub>stg</sub>	-55~150	°C

### ■DEVICE MARKING 打標

**GM9012(銷售型號 S9012)=2T1**



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■ELECTRICAL CHARACRTERISTICS 電特性

( $T_A=25^{\circ}\text{C}$  unless otherwise noted 如無特殊說明，溫度為  $25^{\circ}\text{C}$ )

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min 最小值	TYP 典型值	Max 最大值	Unit 單位
Collector Cutoff Current 集電極截止電流	$I_{CBO}$	$V_{CB} = -35\text{V}, I_E = 0$	—	—	-0.1	$\mu\text{A}$
Emitter Cutoff Current 發射極截止電流	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-0.1	$\mu\text{A}$
Collect-Base Breakdown Voltage 集電極-基極擊穿電壓	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}$	-40	—	—	V
Collect-Base Breakdown Voltage 集電極-基極擊穿電壓	$V_{(BR)CEO}$	$I_C = -1.0\text{mA}$	-30	—	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓	$V_{(BR)EBO}$	$I_E = -100\mu\text{A}$	-5	—	—	V
DC Current Gain 直流電流增益	$h_{FE(1)}$	$V_{CE} = -1\text{V}, I_C = -50\text{mA}$	70	—	400	—
	$h_{FE(2)}$	$V_{CE} = -6\text{V}, I_C = -400\text{mA}$	25	—	—	
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	—	—	-0.6	V
Base-Emitter Saturation Voltage 基極-發射極飽和壓降	$V_{BE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	—	—	-1.2	V
Base-Emitter Voltage 基極-發射極電壓	$V_{BE}$	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	—	-0.8	-1.0	V
Transition Frequency 特徵頻率	$f_T$	$V_{CE} = -6\text{V}, I_C = -20\text{mA}$	150	300	—	MHz
Collector Output Capacitance 輸出電容	$C_{ob}$	$V_{CB} = -6\text{V}, I_E = 0, f = 1\text{MHz}$	—	7.0	10	pF