



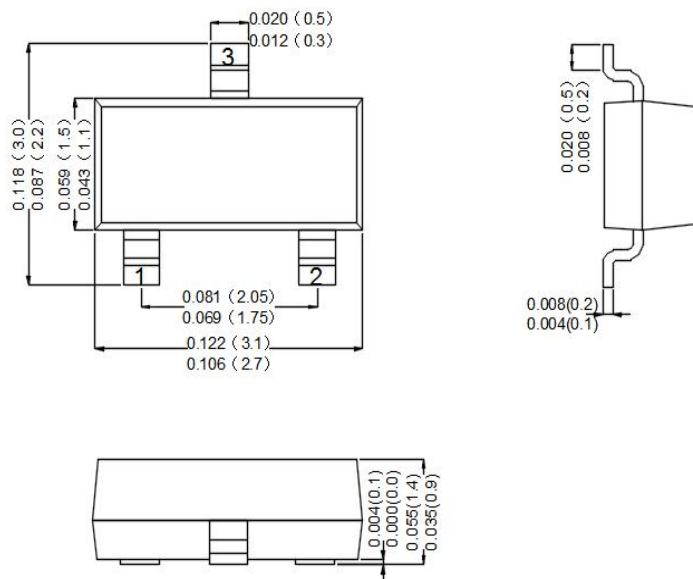
### Features

- General Purpose Amplifier Applications

### SOT-23

### Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: 2GM
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

### Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	80	V
Collector Emitter Voltage	$-V_{CEO}$	80	V
Emitter Base Voltage	$-V_{EBO}$	4	V
Collector Current	$-I_C$	500	mA
Total Device Dissipation	$P_{tot}$	200	mW
Derate above 25°C		2.8	mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	$T_j$	-55 to +150	°C
Storage Temperature Range	$T_s$	-55 to +150	°C

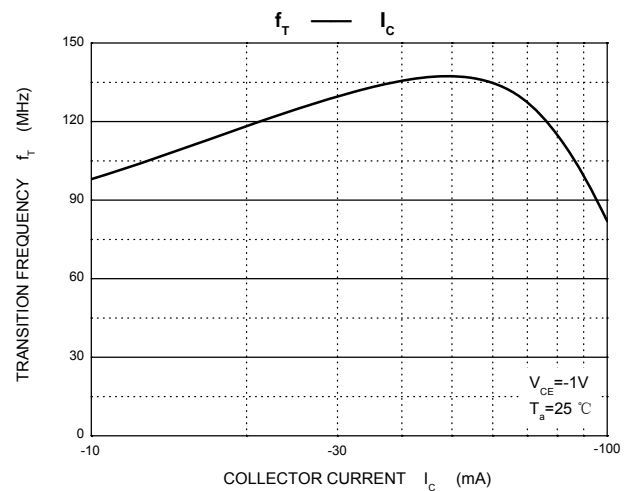
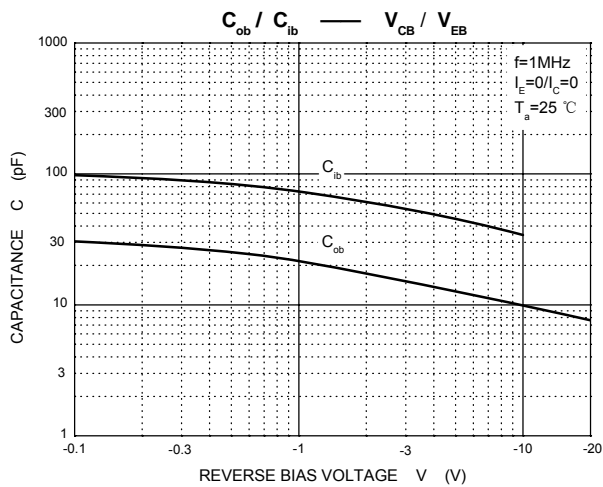
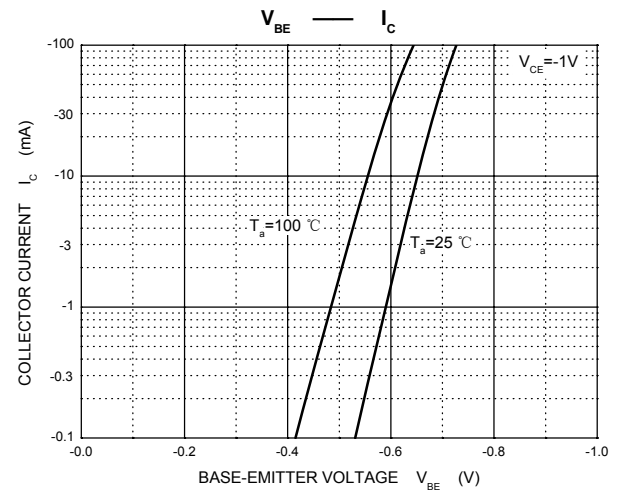
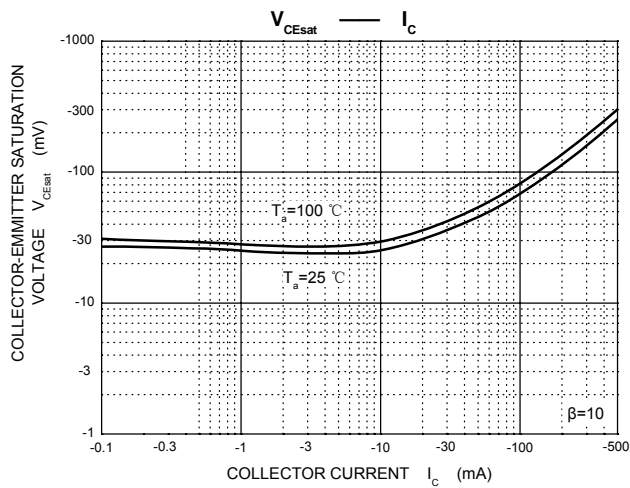
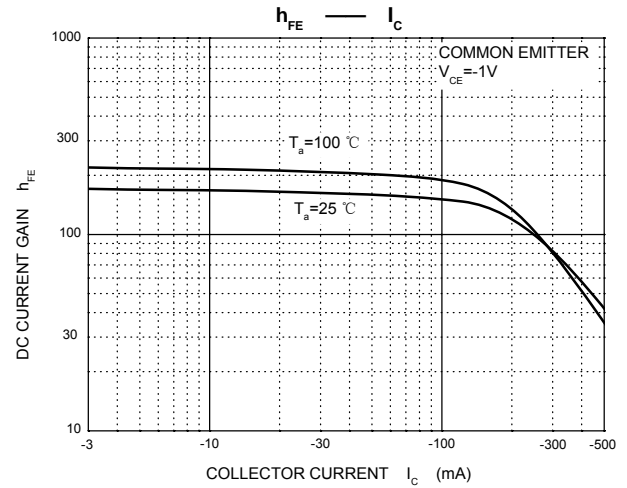
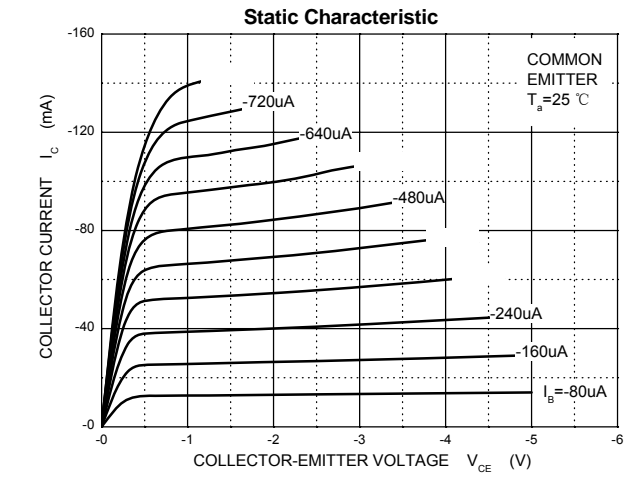


### Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

	Symbol	Min.	Max.	Unit
DC Current Gain				
at $-I_C=10\text{mA}$ , $-V_{CE}=1\text{V}$	$h_{FE}$	100	400	-
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$	$h_{FE}$	100	-	-
Collector Cutoff Current				
at $-V_{CB}=80\text{V}$	$-I_{CBO}$	-	0.1	$\mu\text{A}$
Collector Cutoff Current				
at $-V_{CE}=60\text{V}$	$-I_{CEO}$	-	0.1	$\mu\text{A}$
Collector Emitter Breakdown Voltage				
at $-I_C=1\text{mA}$	$-V_{(BR)CEO}$	80	-	V
Collector Base Breakdown Voltage				
at $-I_C=100\mu\text{A}$	$-V_{(BR)CBO}$	80	-	V
Emitter Base Breakdown Voltage				
at $-I_E=100\mu\text{A}$	$-V_{(BR)EBO}$	4	-	V
Collector Emitter Saturation Voltage				
at $-I_C=100\text{mA}$ , $-I_B=10\text{mA}$	$-V_{CE(sat)}$	-	0.25	V
Base Emitter On Voltage				
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$	$-V_{BE(on)}$	-	1.2	V
Current Gain – Bandwidth Product				
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$ , $f=100\text{MHz}$	$f_T$	50	-	MHz



### Rating And Characteristic Curves





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