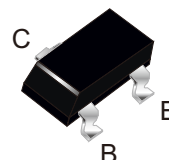


## FEATURES

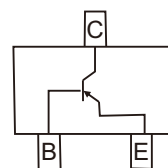
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to MMBTA06
- Power Dissipation of 225mW
- High Stability and High Reliability

### SOT-23



## MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: 2GM



## MAXIMUM RATINGS( $T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	$V_{CEO}$	V	-80
Collector-Base Voltage	$V_{CBO}$	V	-80
Emitter-Base Voltage	$V_{EBO}$	V	-4
Collector Current, Continuous	$I_C$	mA	-500
Collector Power Dissipation	$P_D$	mW	225
Operation Junction Temperature	$T_J$	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	$T_{STG}$	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	555

# MMBTA56

## ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C Unless otherwise specified)

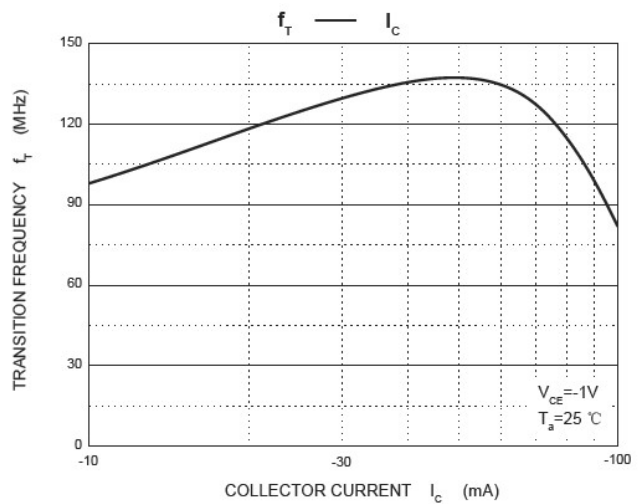
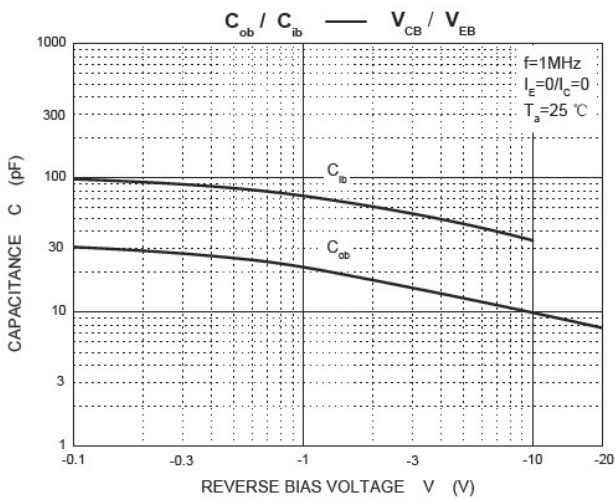
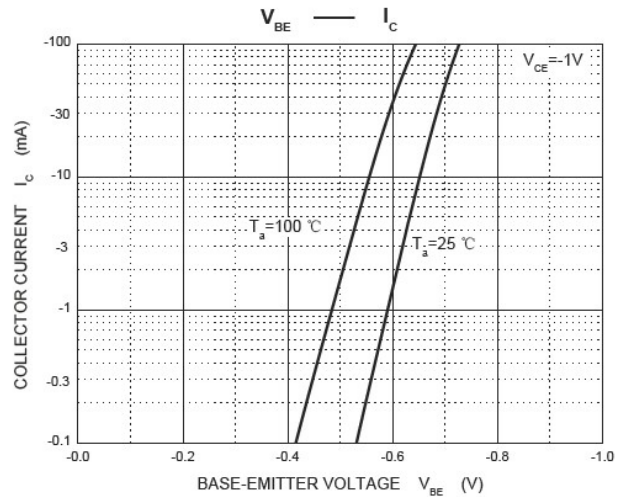
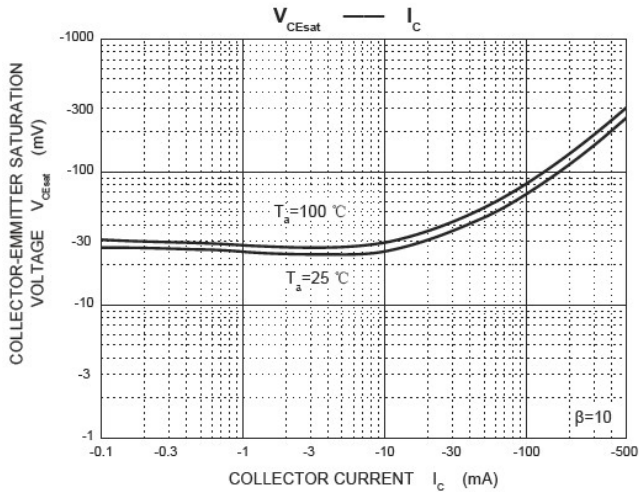
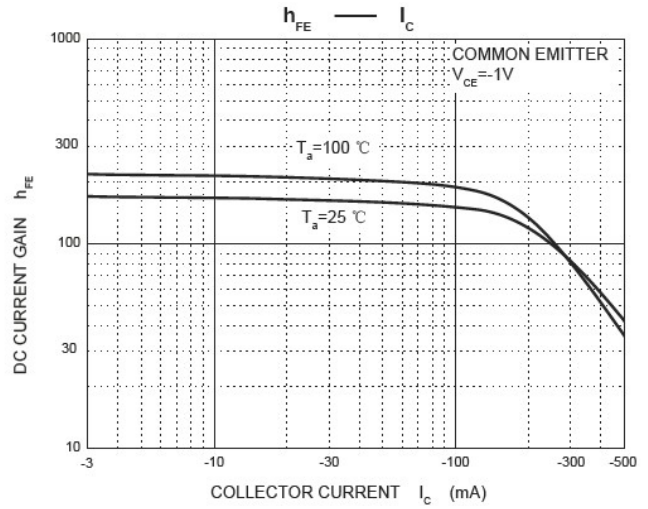
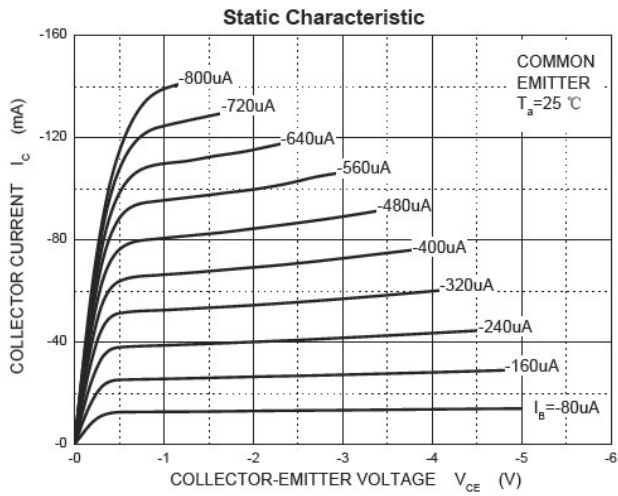
Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0	-80	---
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	V	I <sub>C</sub> =-100μA, I <sub>E</sub> =0	-80	---
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	V	I <sub>E</sub> =-100μA, I <sub>C</sub> =0	-4	---
Collector cut-off Current	I <sub>CBO</sub>	nA	V <sub>CB</sub> =-80V, I <sub>E</sub> =0	---	-100
Collector cut-off Current	I <sub>CEO</sub>	uA	V <sub>CE</sub> =-60V, I <sub>B</sub> =0	---	-1.0
Emitter cut-off Current	I <sub>EBO</sub>	nA	V <sub>EB</sub> =-4V, I <sub>C</sub> =0	---	-100
DC Current Gain	h <sub>FE(1)</sub>		I <sub>C</sub> =-10mA, V <sub>CE</sub> =-1V	100	400
	h <sub>FE(2)</sub>		I <sub>C</sub> =-100mA, V <sub>CE</sub> =-1V	100	---
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	V	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA	---	-0.25
Base-Emitter Voltage	V <sub>BE</sub>	V	I <sub>C</sub> =-100mA, V <sub>CE</sub> =-1V	---	-1.20
Current Gain-Bandwidth Product	f <sub>T</sub>	MHz	I <sub>C</sub> =-100mA, V <sub>CE</sub> =-1V f=100MHz	50	---

Pulse test:pulse width≤300us,duty cycle≤2.0%

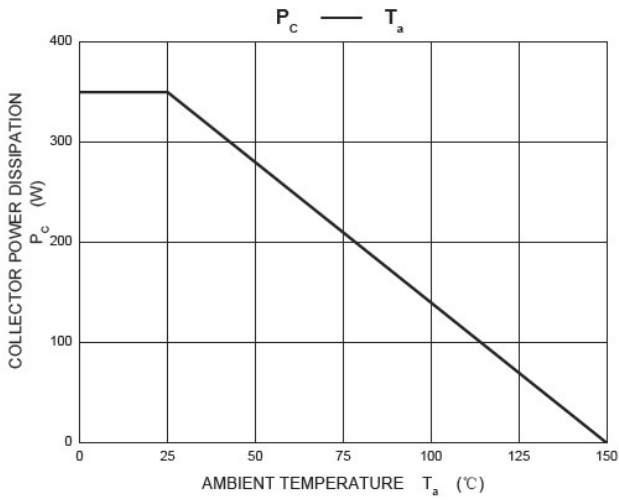
## AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
MMBTA56	T/R	Φ180	3K	30K	120K

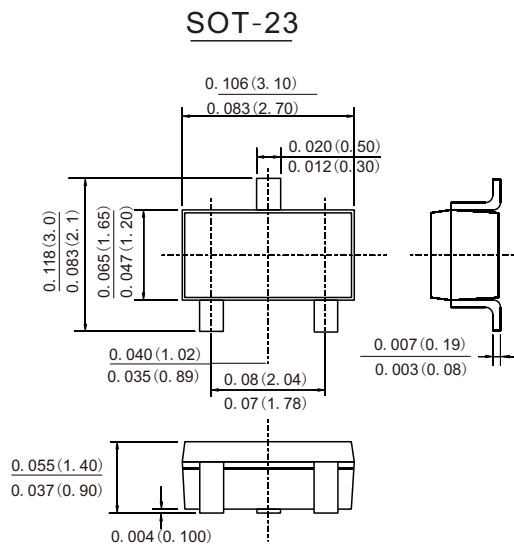
Characteristics(Typical)



# MMBTA56

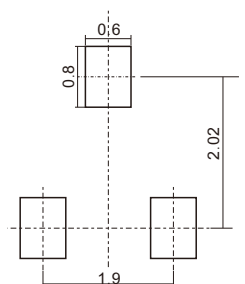


## Outline Dimensions



Dimensions in inches and (millimeters)

## Suggested pad layout



Dimensions in millimeters

## Friendship Reminder

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