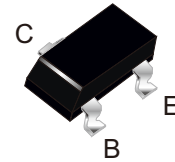


FEATURES

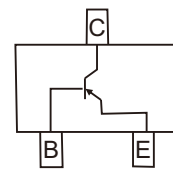
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to MMBTA44
- Power Dissipation of 350mW
- High Stability and High Reliability

SOT-23



MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: 4D



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

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	-400
Collector-Base Voltage	V_{CBO}	V	-400
Emitter-Base Voltage	V_{EBO}	V	-5.0
Collector Current, Continuous	I_C	mA	-200
Power Dissipation	P_D	mW	350
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	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	357

MMBTA94

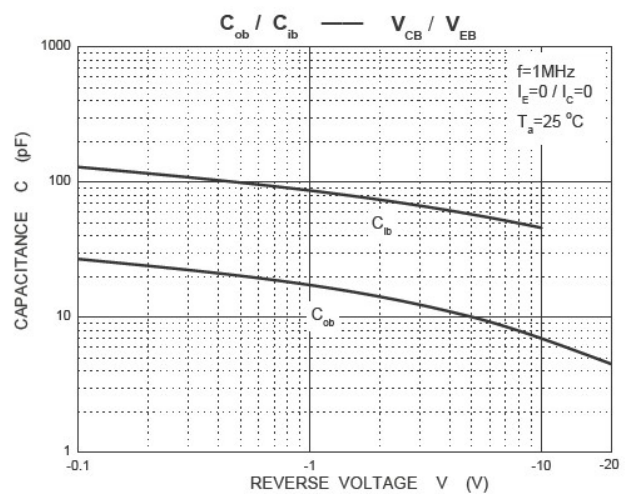
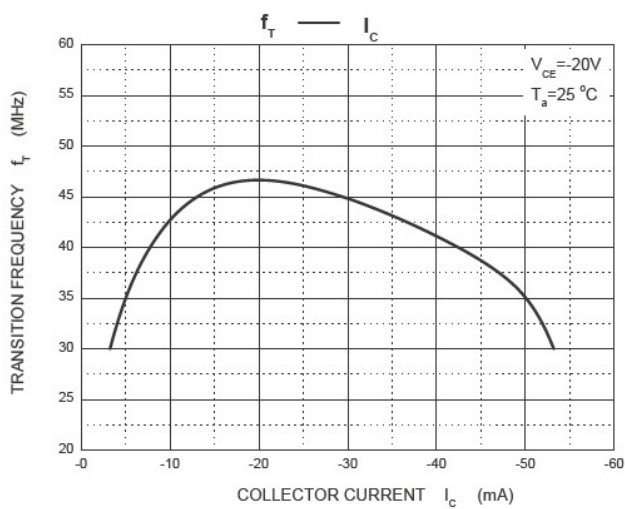
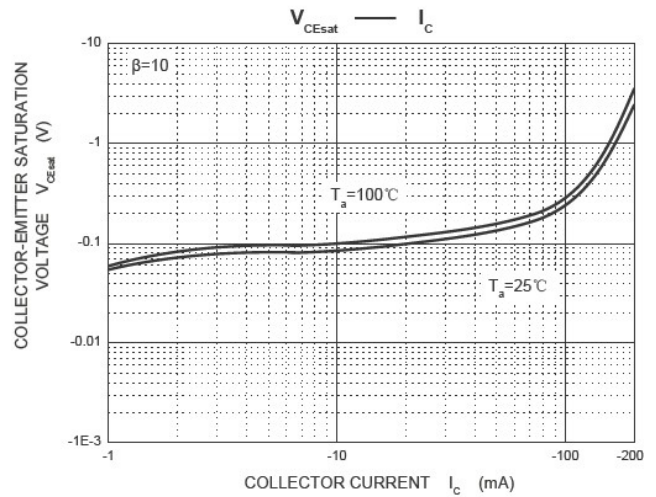
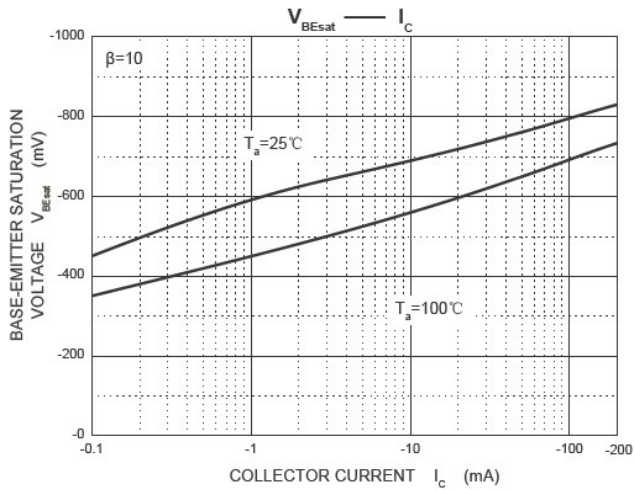
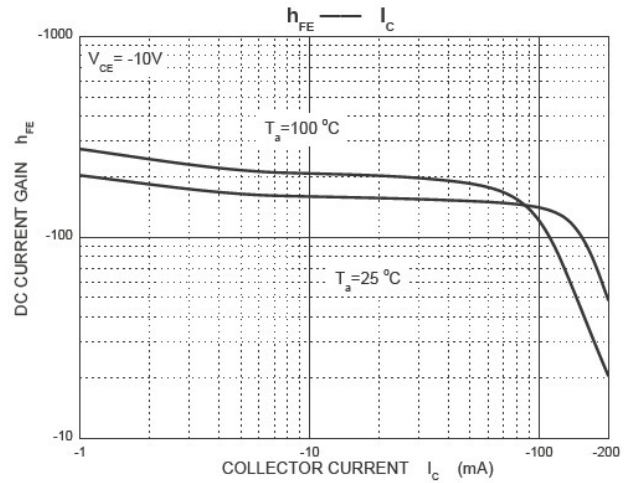
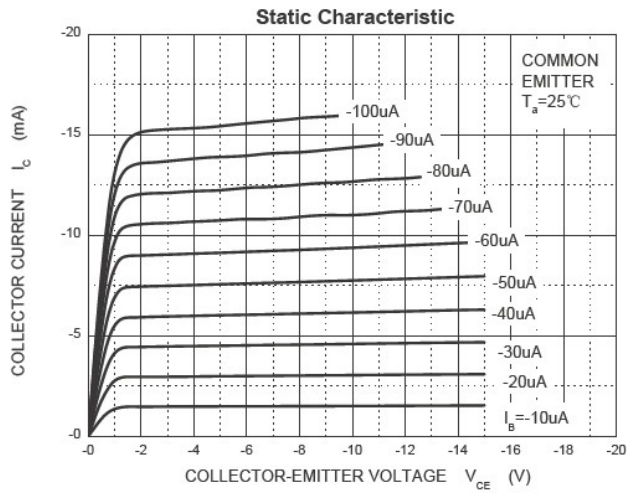
ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	$I_C = -1\text{mA}, I_B = 0$	-400	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C = -100\mu\text{A}, I_E = 0$	-400	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E = -100\mu\text{A}, I_C = 0$	-5.0	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB} = -400\text{V}, I_E = 0$	---	-100
Collector cut-off Current	I_{CEO}	μA	$V_{CE} = -400\text{V}, I_B = 0$	---	-5
Emitter cut-off Current	I_{EBO}	nA	$V_{EB} = -4\text{V}, I_C = 0$	---	-100
DC Current Gain	$h_{FE(1)}$		$I_C = -10\text{mA}, V_{CE} = -10\text{V}$	80	300
	$h_{FE(2)}$		$I_C = -1\text{mA}, V_{CE} = -10\text{V}$	70	---
	$h_{FE(3)}$		$I_C = -50\text{mA}, V_{CE} = -10\text{V}$	40	---
	$h_{FE(4)}$		$I_C = -100\text{mA}, V_{CE} = -10\text{V}$	40	---
Collector-Emitter Saturation Voltage	$V_{CE(set)}$	V	$I_C = -10\text{mA}, I_B = -1\text{mA}$	---	-0.20
			$I_C = -50\text{mA}, I_B = -5\text{mA}$	---	-0.30
Base-Emitter Saturation Voltage	$V_{BE(set)}$	V	$I_C = -10\text{mA}, I_B = -1\text{mA}$	---	-0.75
Current Gain-Bandwidth Product	f_T	MHZ	$I_C = -10\text{mA}, V_{CE} = -20\text{V}$ $f = 30\text{MHZ}$	50	---

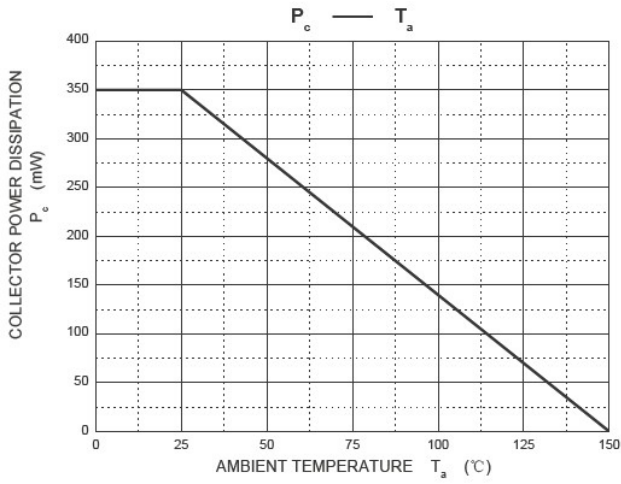
AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
MMBTA94	T/R	$\Phi 180$	3K	30K	120K

MMBTA94

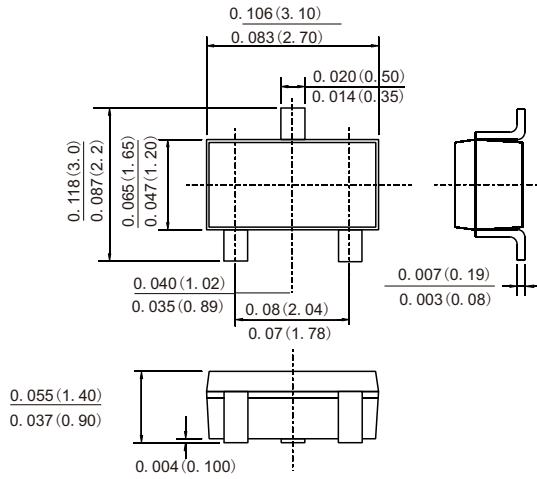


MMBTA94



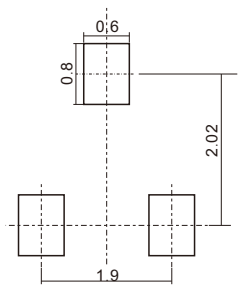
Outline Dimensions

SOT-23



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

Friendship Reminder

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