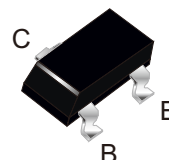


FEATURES

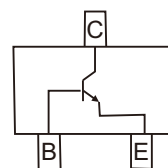
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to MMBTA94
- Power Dissipation of 350mW
- High Stability and High Reliability

SOT-23



MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: 3D



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	6
Collector Current, Continuous	I_C	mA	200
Collector 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

MMBTA44

ELECTRICAL CHARACTERISTICS(T_A=25°C Unless otherwise specified)

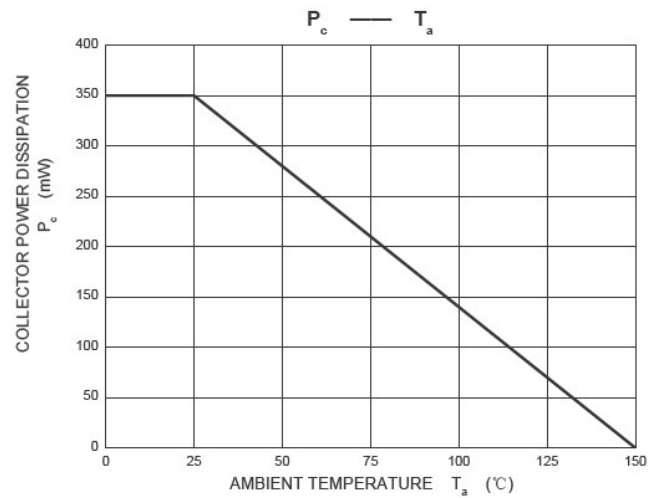
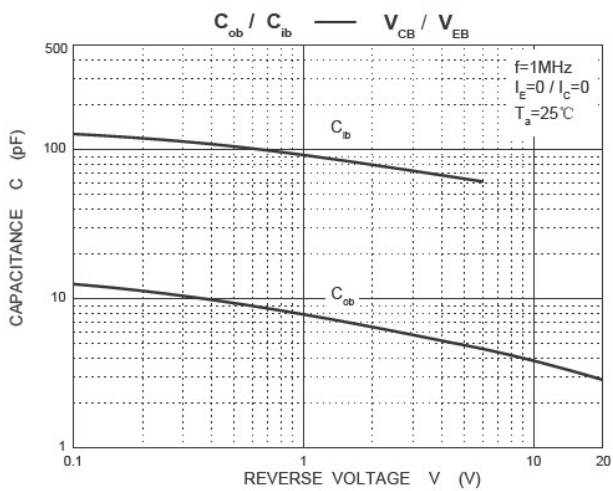
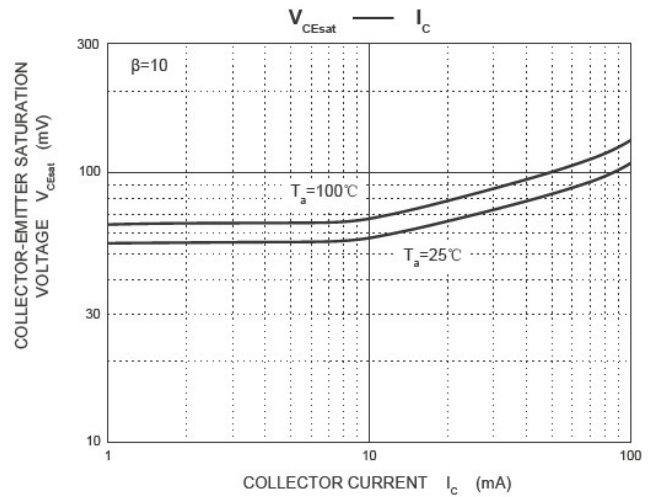
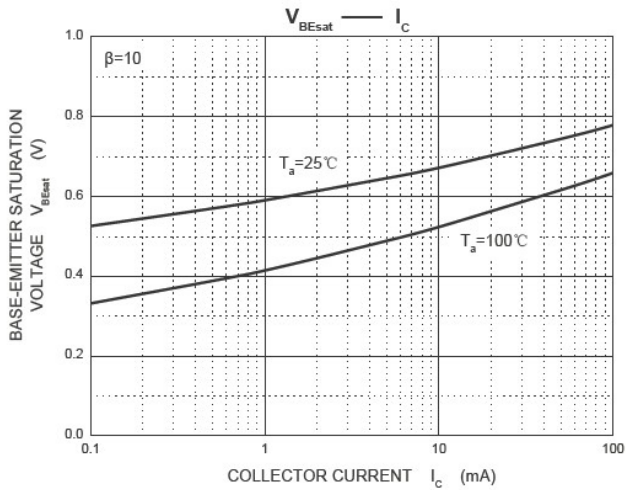
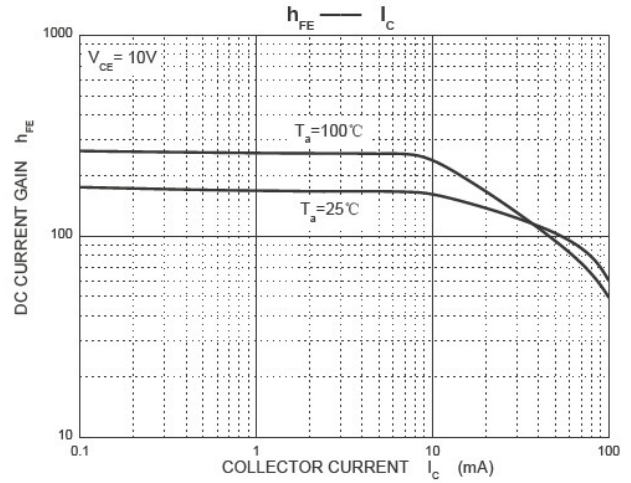
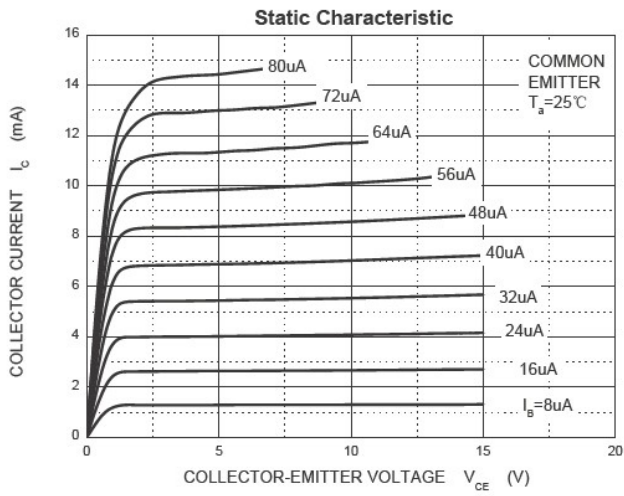
Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	V	I _C =1mA, I _B =0	400	---
Collector-Base Breakdown Voltage	V _{(BR)CBO}	V	I _C =100μA, I _E =0	400	---
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	V	I _E =10μA, I _C =0	6	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =400V, I _E =0	---	100
Emitter cut-off Current	I _{EBO}	nA	V _{EB} =4V, I _C =0	---	100
DC Current Gain	h _{FE(1)}		I _C =1mA, V _{CE} =10V	40	---
	h _{FE(2)}		I _C =10mA, V _{CE} =10V	50	200
	h _{FE(3)}		I _C =50mA, V _{CE} =10V	45	---
	h _{FE(4)}		I _C =100mA, V _{CE} =10V	40	---
Collector-Emitter Saturation Voltage	V _{CE(sat)}	V	I _C =1mA, I _B =0.1mA	---	0.40
			I _C =10mA, I _B =1mA	---	0.50
			I _C =50mA, I _B =5mA	---	0.75
Base-Emitter Saturation Voltage	V _{BE(sat)}	V	I _C =10mA, I _B =1mA	---	0.75
Output Capacitance	C _{ob}	pF	V _{CB} =20V, f=1.0MHz, I _E =0	---	7
Emitter Input Capacitance	C _{ib}	pF	V _{EB} =0.5V, f=1.0MHz, I _C =0	---	130

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

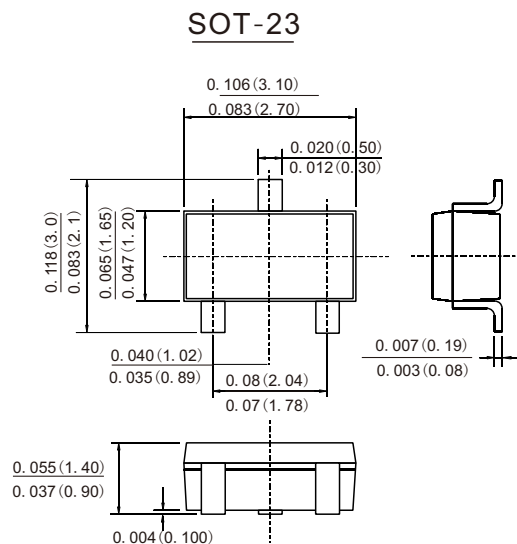
AVAILABALE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
MMBTA44	T/R	Φ180	3K	30K	120K

Characteristics(Typical)

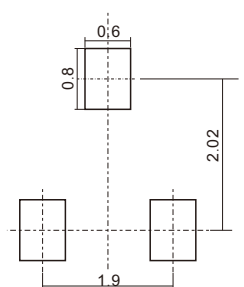


Outline Dimensions



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

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