

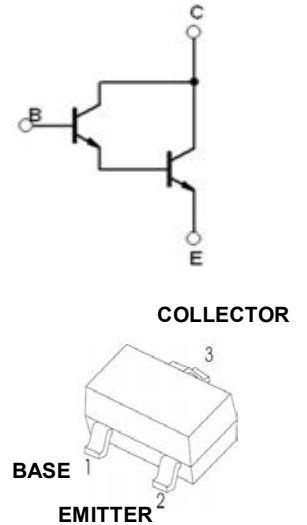


### MMBTA28 三极管

#### FEATURES

- 三极管

MARKING: 3SS



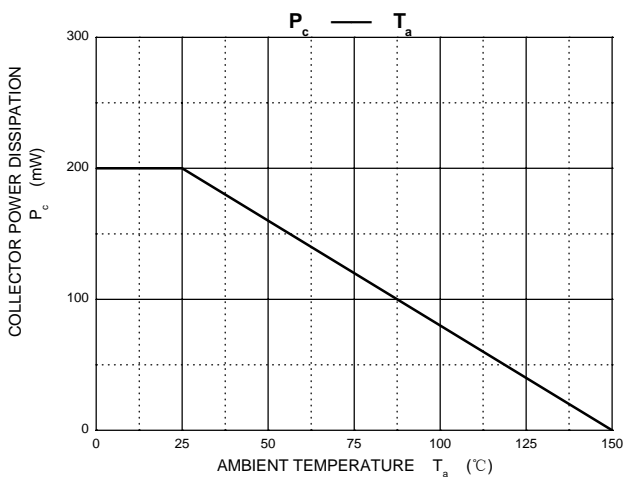
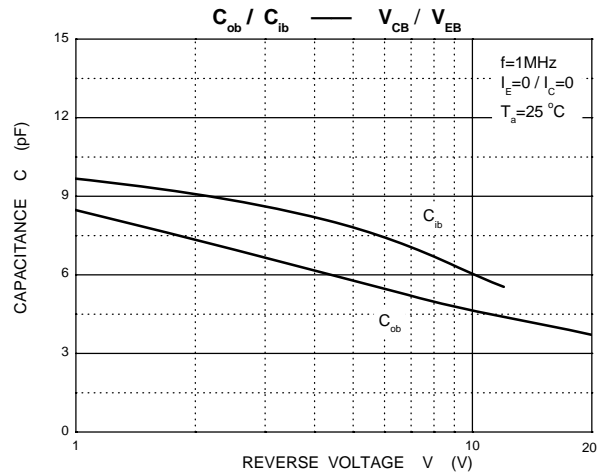
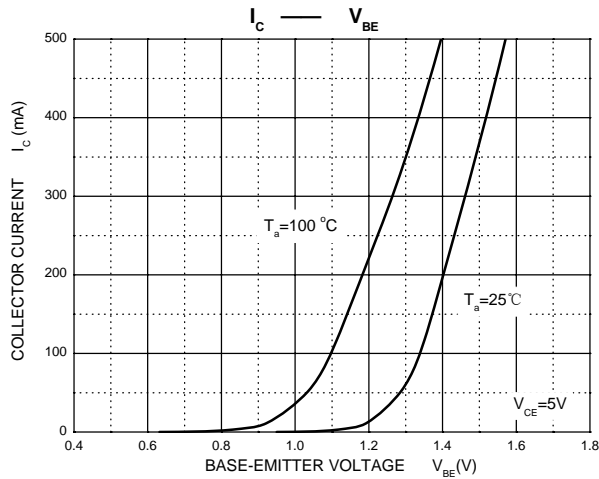
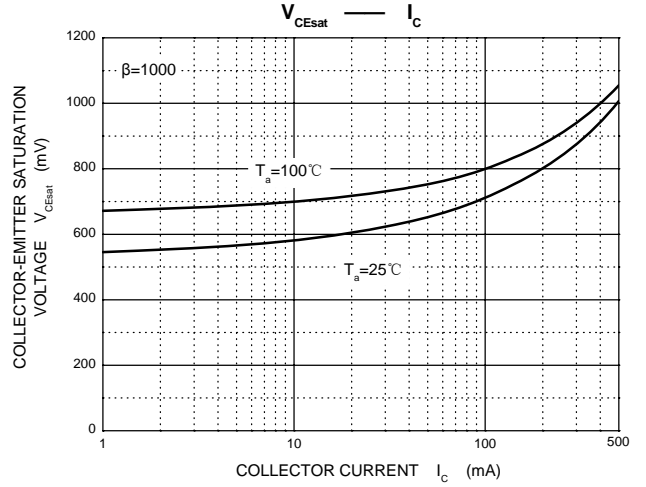
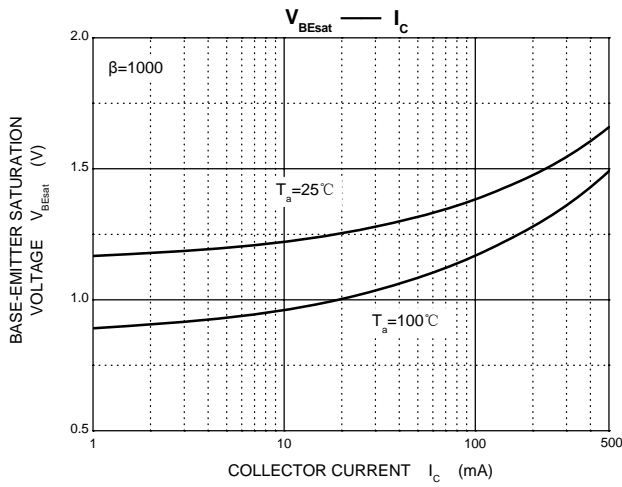
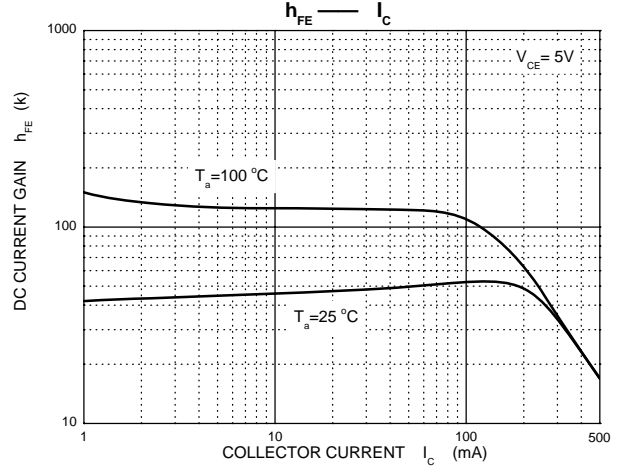
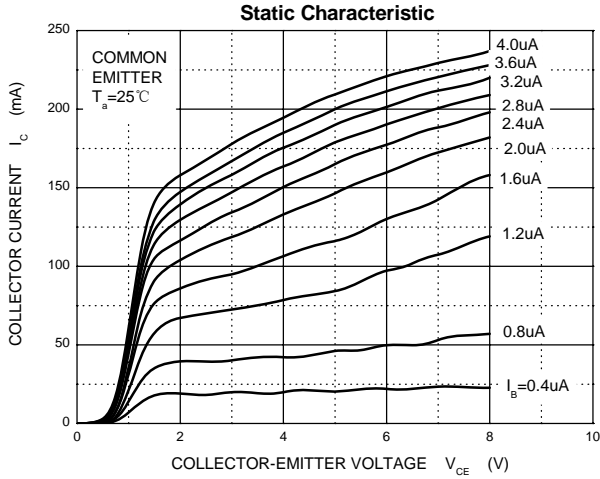
#### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-base breakdown voltage	1	V
V <sub>CEO</sub>	Collector-emitter sustain voltage	1	V
V <sub>EBO</sub>	Emitter-base breakdown voltage	FG	V
I <sub>c</sub>	Collector current	100	mA
P <sub>c</sub>	Collector power dissipation	300	mW
R <sub>θJA</sub>	Thermal resistance	100	°C/W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55 ~ 150	°C

SOT - 23

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V <sub>CB0</sub>	V <sub>CE</sub> =0, I <sub>B</sub> =0	1			V
Collector-emitter sustain voltage	V <sub>CEO</sub>	V <sub>CE</sub> =V <sub>CB0</sub> , I <sub>B</sub> =0	1			V
Emitter-base breakdown voltage	V <sub>EBO</sub>	V <sub>BE</sub> =0, I <sub>C</sub> =0	FG			V
Collector cut-off current	I <sub>CO</sub>	V <sub>CE</sub> =V <sub>CEO</sub> , I <sub>B</sub> =0			10	μA
Collector cut-off current	I <sub>CO</sub>	V <sub>CE</sub> =V <sub>CEO</sub> , I <sub>B</sub> =0			10	μA
Emitter cut-off current	I <sub>EO</sub>	V <sub>BE</sub> =0, I <sub>C</sub> =0			10	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =V <sub>CEO</sub> , I <sub>C</sub> =10mA	50			S
	h <sub>FE</sub>	V <sub>CE</sub> =V <sub>CEO</sub> , I <sub>C</sub> =10mA	50			S
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =10mA			0.2	V
	V <sub>CE(sat)</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =10mA			0.2	V
Base-emitter voltage	V <sub>BE</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =10mA			0.7	V
Collector output capacitance	C <sub>ic</sub>	V <sub>CE</sub> =V <sub>CEO</sub> , f=1MHz			1	pF
Transition frequency	f <sub>T</sub>	I <sub>C</sub> =10mA, V <sub>CE</sub> =V <sub>CEO</sub>	50			MHz

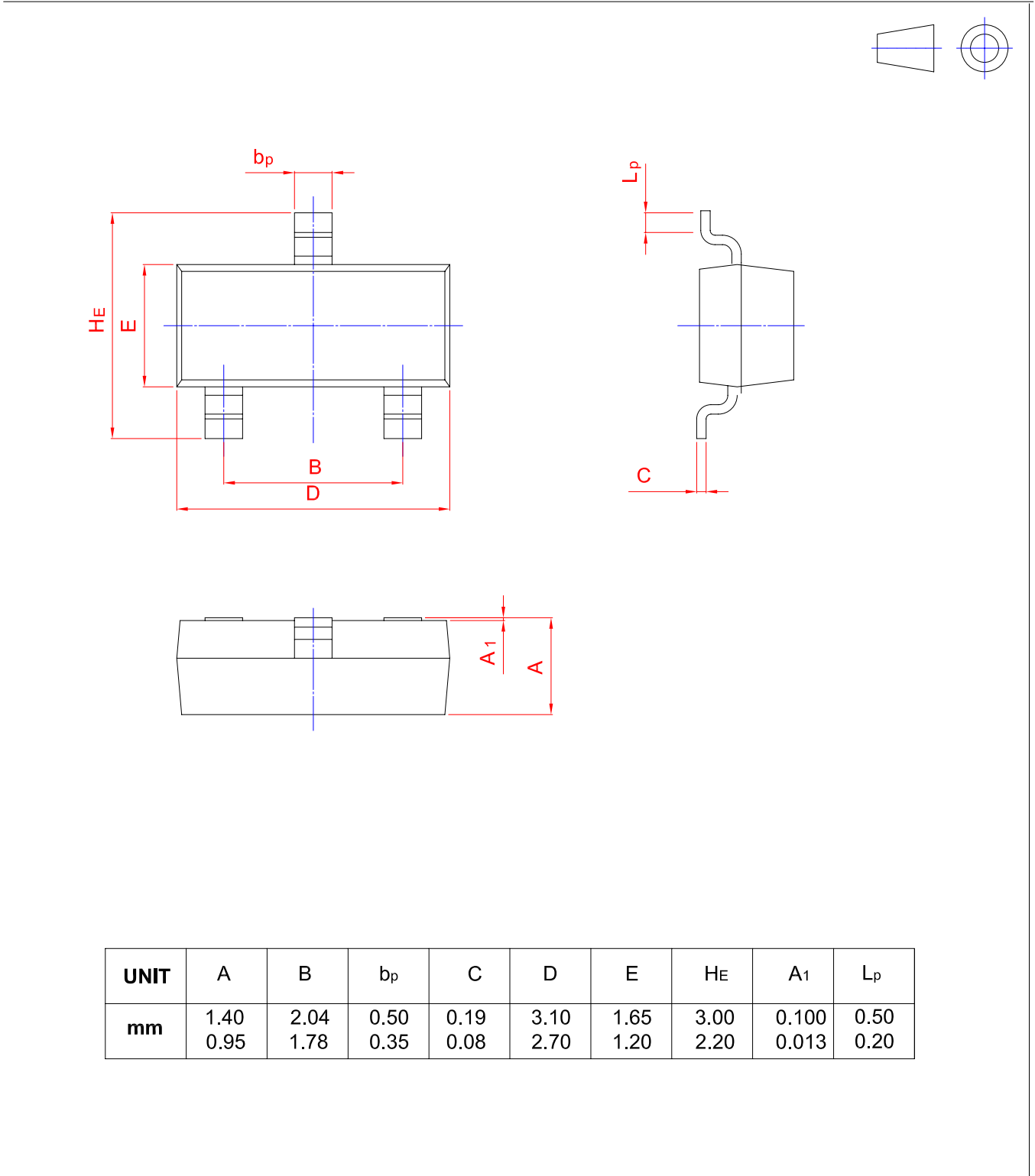




## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	$b_p$	C	D	E	$H_E$	$A_1$	$L_p$
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20