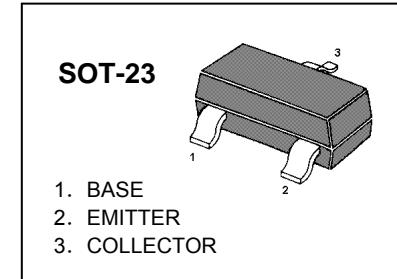


MMBT4401 TRANSISTOR (NPN)
FEATURES

- Epitaxial Planar Die Construction
- Complementary PNP Type Available (MMBT4403)
- Ideal for Medium Power Amplification and Switching

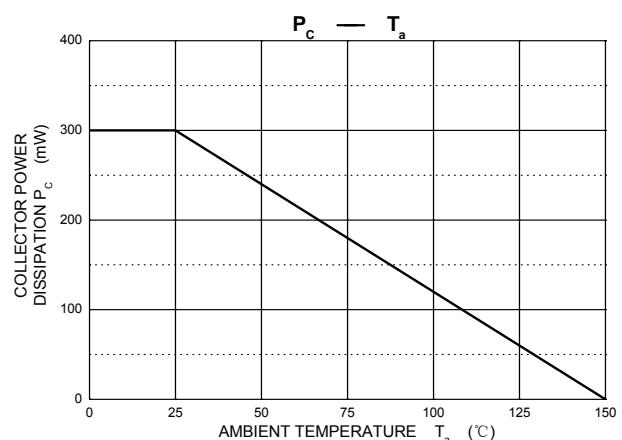
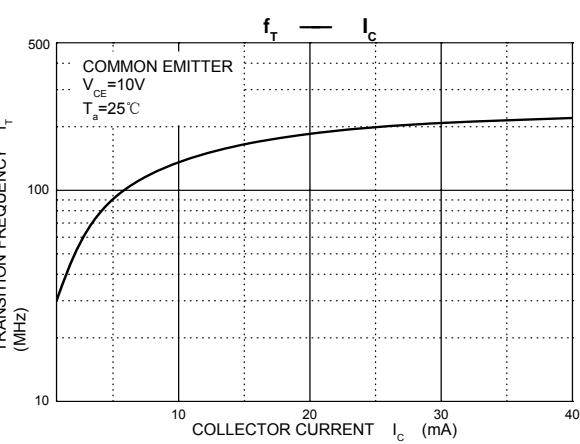
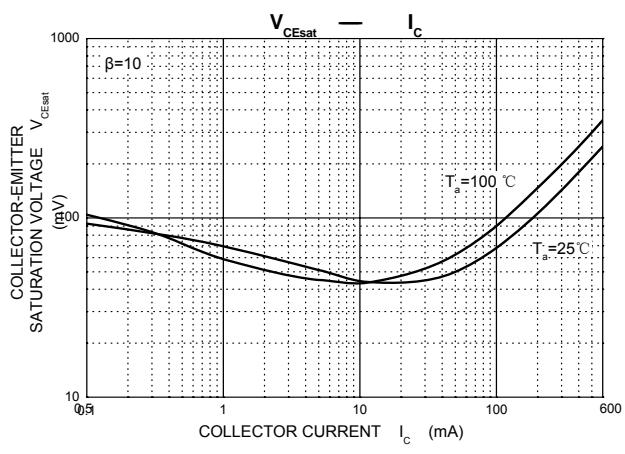
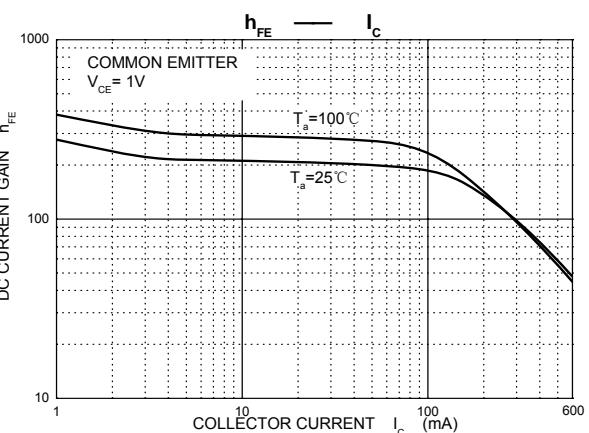
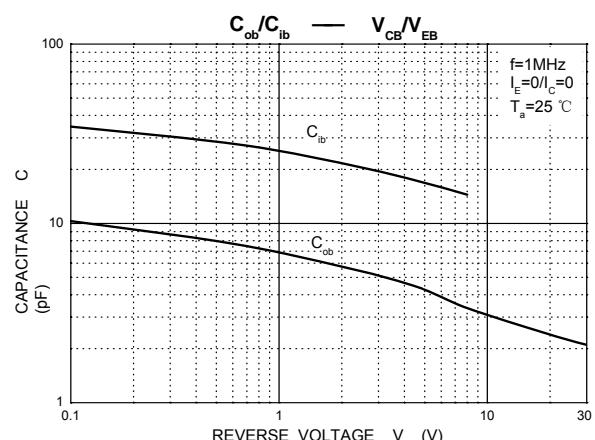
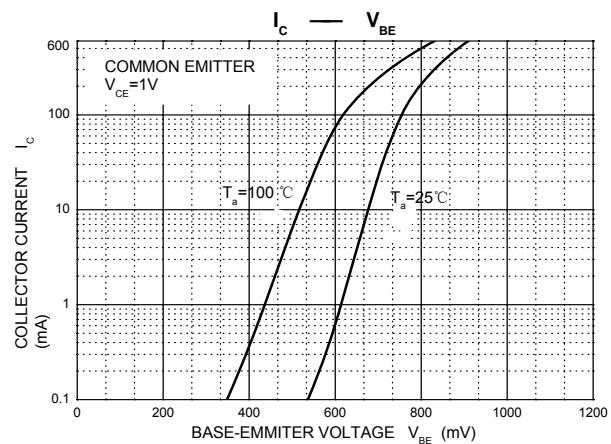
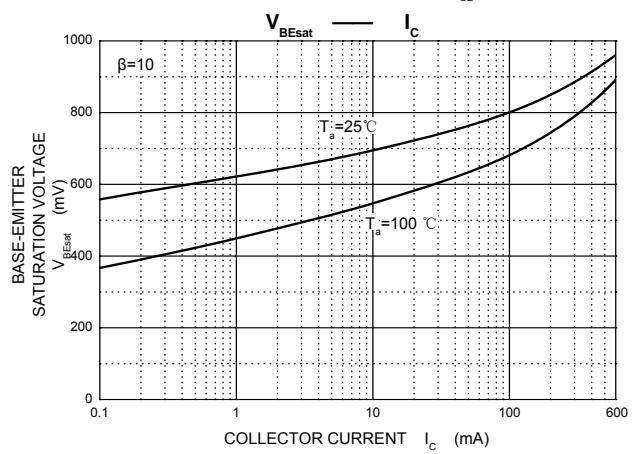
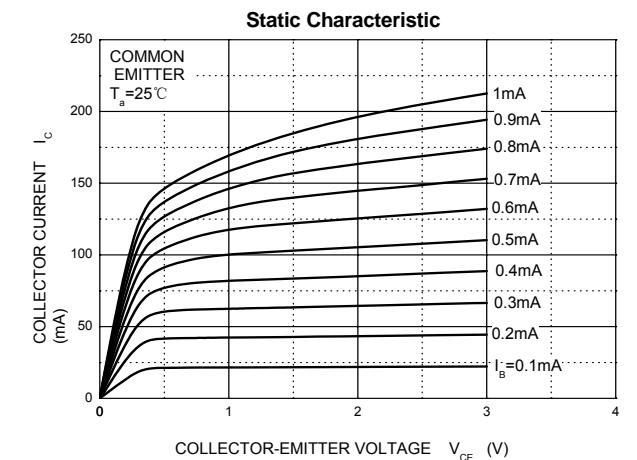

MARKING: 2X
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	600	mA
P_c	Collector Power dissipation	0.3	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55 to +150	$^\circ\text{C}$
$R_{\Theta JA}$	Thermal Resistance, junction to Ambient	417	$^\circ\text{C}/\text{mW}$

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C= 100\mu\text{A}, I_E=0$	60		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C= 1\text{mA}, I_B=0$	40		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E= 100\mu\text{A}, I_C=0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB}=50\text{ V}, I_E=0$		0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=30\text{ V}, I_B=0$		0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$		0.1	μA
DC current gain	h_{FE}	$V_{CE}=1\text{V}, I_C=150\text{mA}$	100	300	
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_C=150\text{mA}, I_B=15\text{mA}$		0.4	V
Base-emitter saturation voltage	$V_{BE(\text{sat})}$	$I_C= 150\text{mA}, I_B=15\text{mA}$		0.95	V
Transition frequency	f_T	$V_{CE}= 10\text{V}, I_C= 20\text{mA}$ $f = 100\text{MHz}$	250		MHz

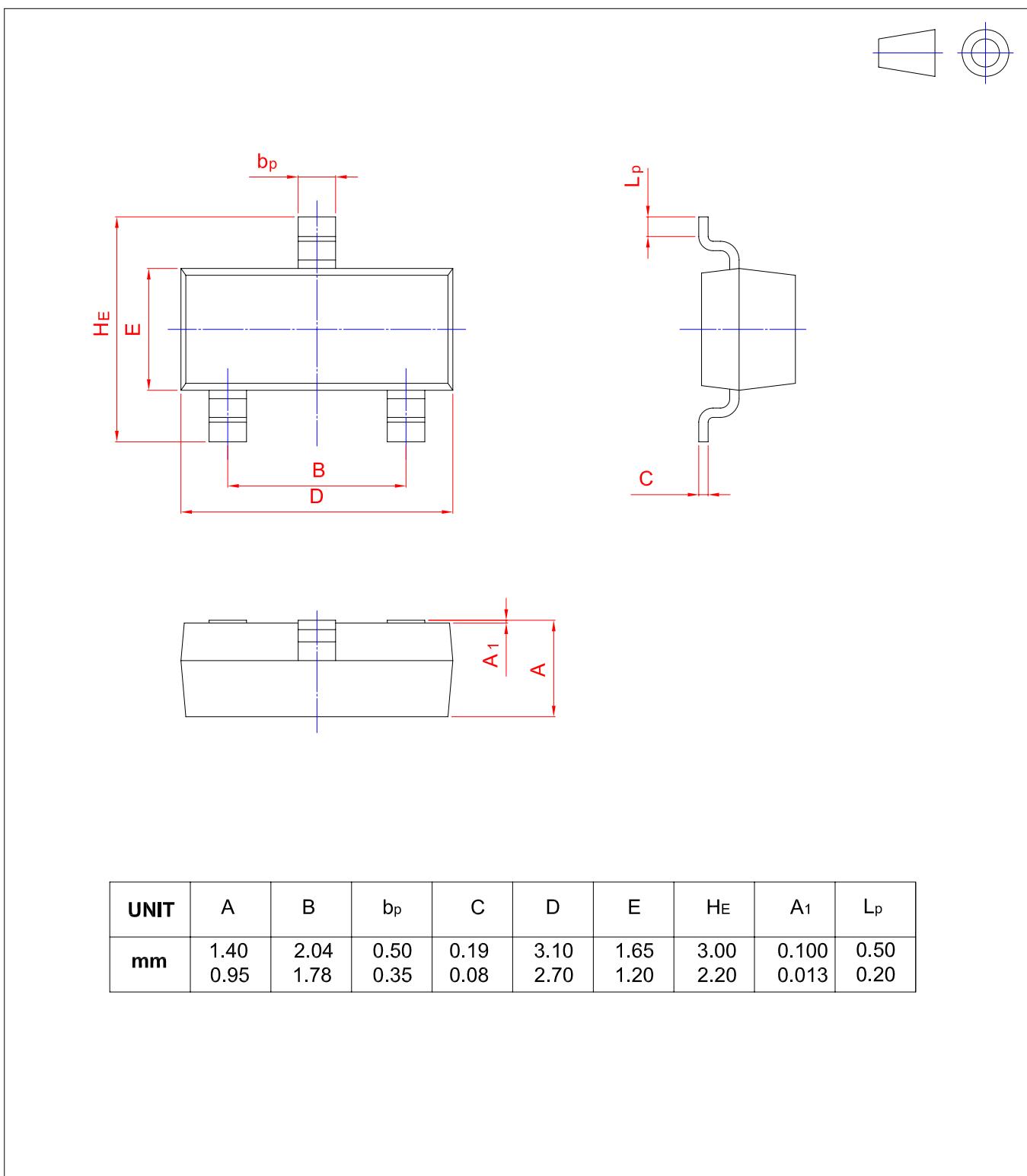
Typical Characteristics



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 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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