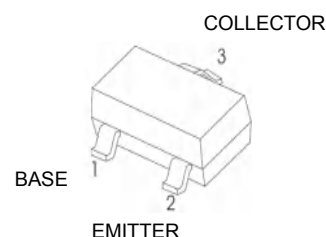




M8550 TRANSISTOR(PNP)

FEATURES

Power dissipation



MARKING: Y21

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

SOT-23

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-0.8	A
P_C	Collector power dissipation	200	mW
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55-150	$^{\circ}\text{C}$

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}$, $I_E = 0$	-40		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}^*$	$I_C = -1\text{mA}$, $I_B = 0$	-25		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}	$V_{CB} = -35\text{V}$, $I_E = 0$		-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -20\text{V}$, $I_B = 0$		-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -1\text{V}$, $I_C = -5\text{mA}$	45		
	$h_{FE(2)}$	$V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$	85	400	
	$h_{FE(3)}$	$V_{CE} = -1\text{V}$, $I_C = -800\text{mA}$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$		-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$		-1.2	V
Transition frequency	f_T	$V_{CE} = -6\text{V}$, $I_C = -20\text{mA}$ $f = 30\text{MHz}$	150		MHz

* Pulse Test: pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 2\%$.

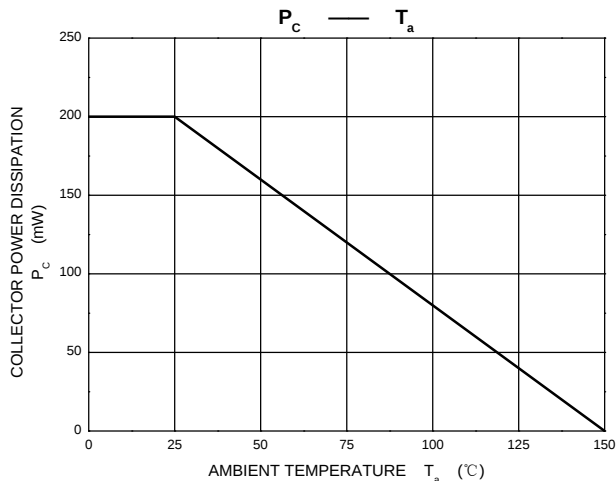
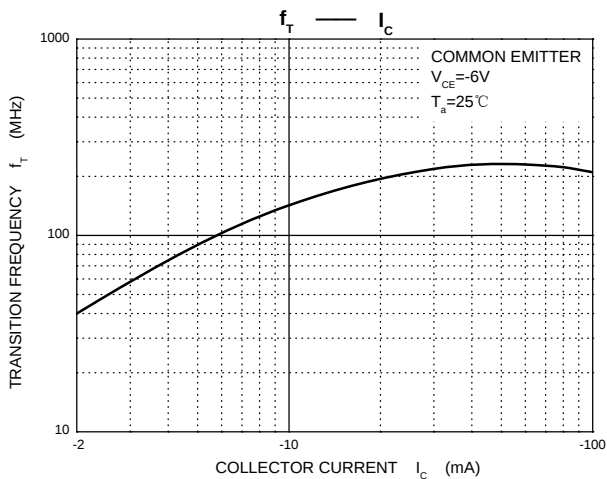
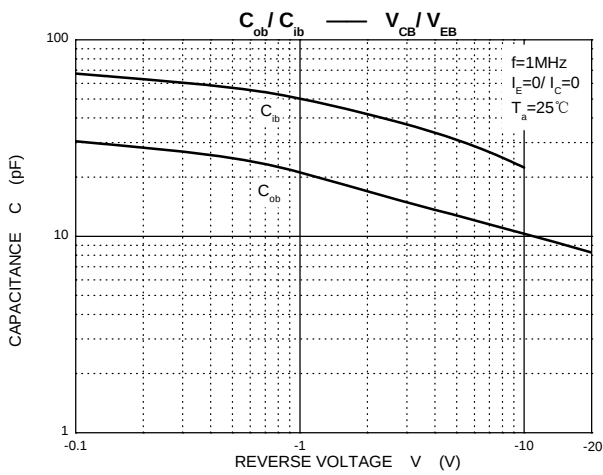
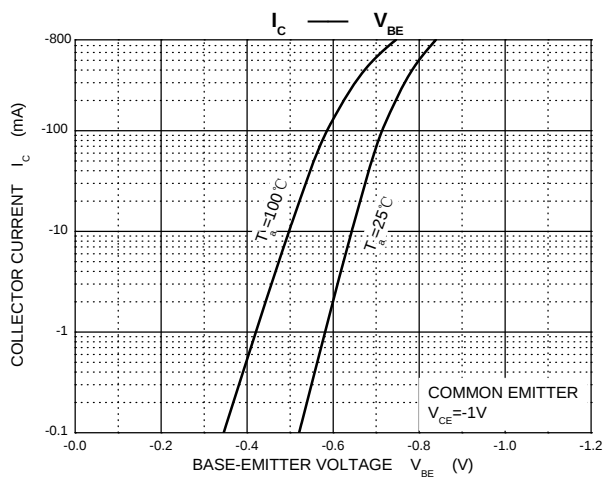
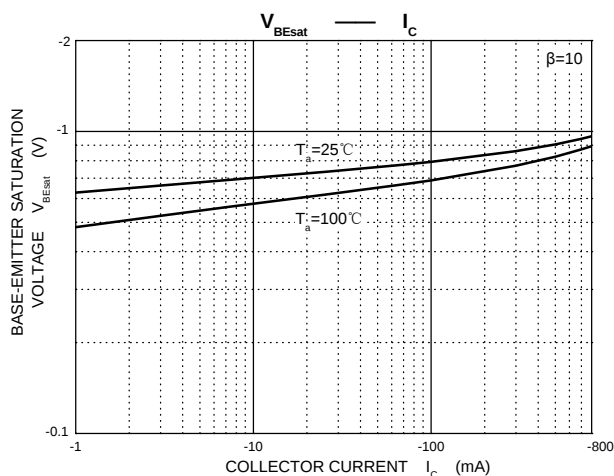
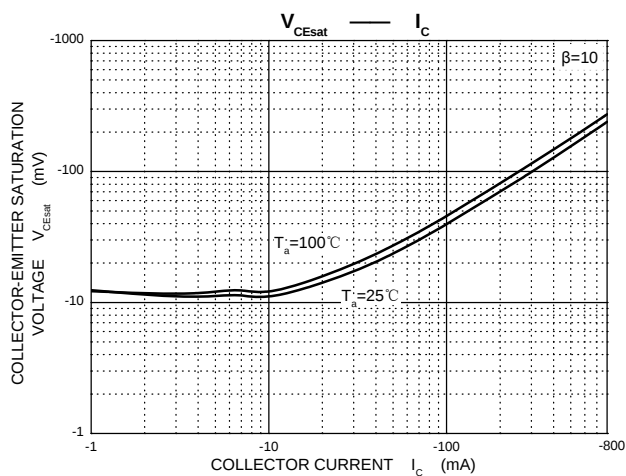
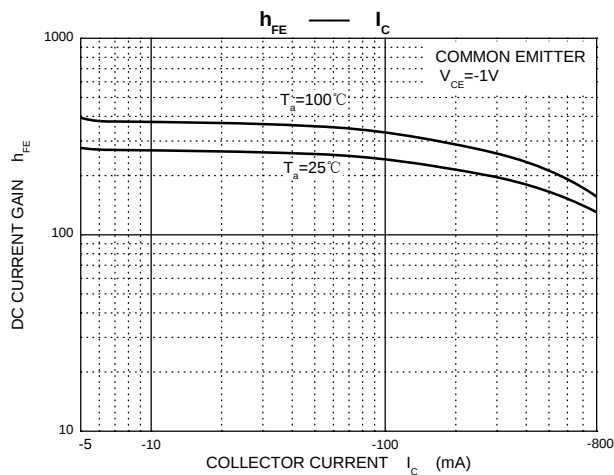
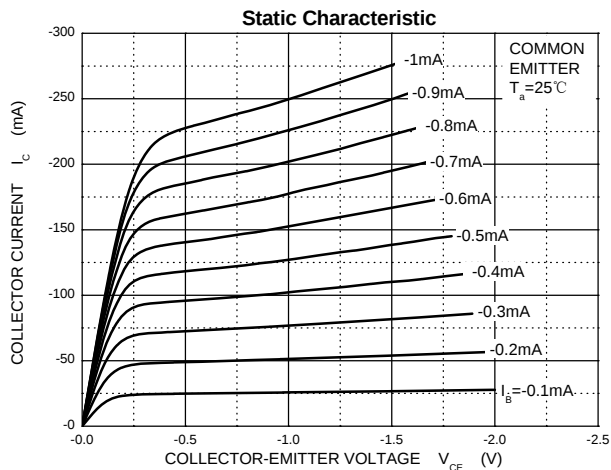
CLASSIFICATION OF $h_{FE(2)}$

Rank	L	H
Range	85-300	300-400



迈拓电子

MAITUO ELECTRONIC

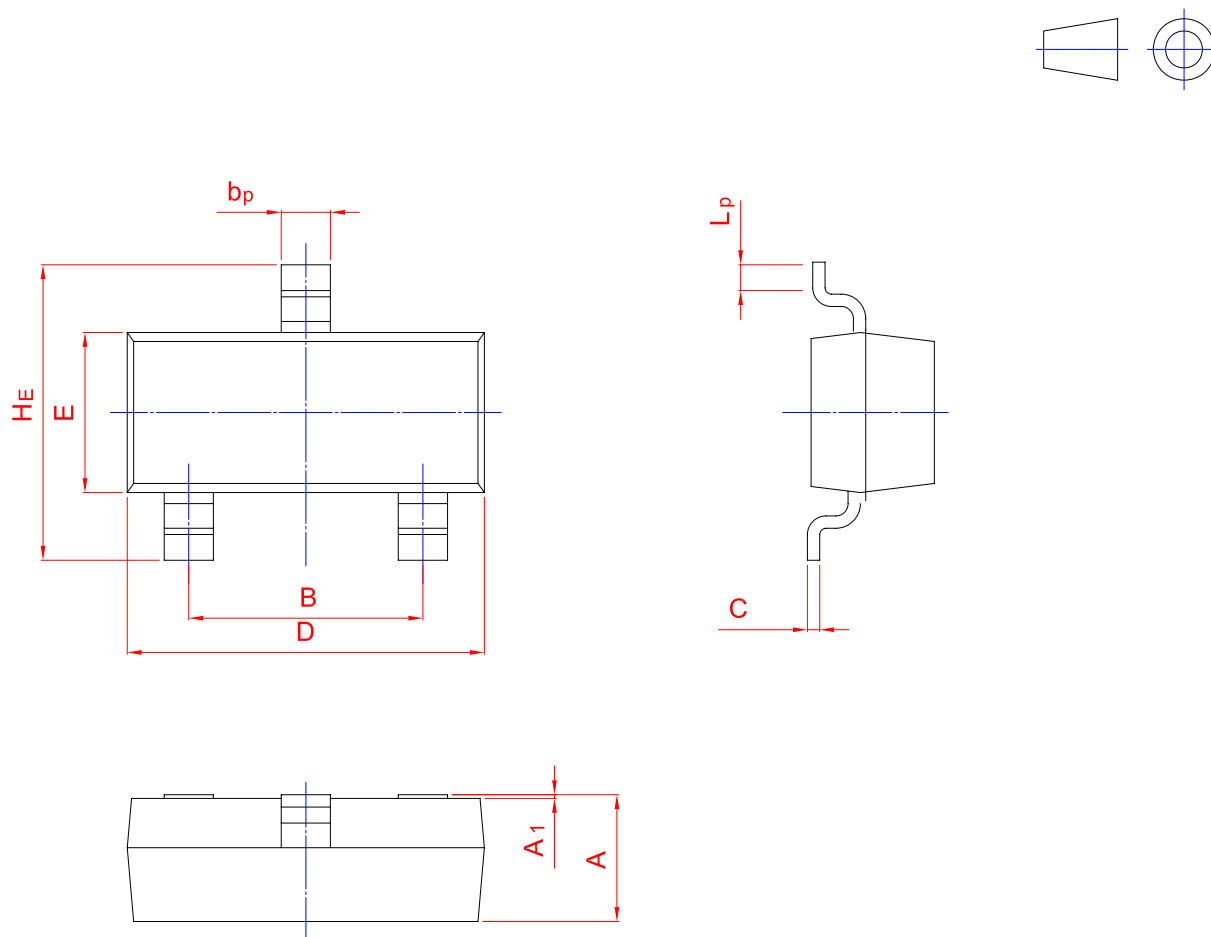




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
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