



迈拓电子
MAITUO ELECTRONIC

PBSS5160T

Descriptions

Silicon PNP transistor in a SOT-23 Plastic Package.

Features

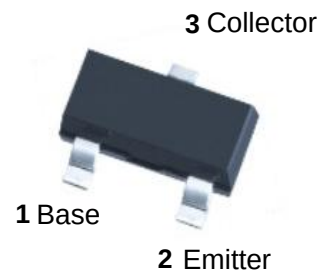
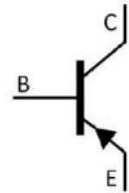
Low $V_{CE(sat)}$, high current.

Applications

General purpose switching and muting

LCD back-lighting

Supply line switching circuits.



h_{FE} Classifications & Marking

h_{FE} Range	>150
Marking	HU6

SOT23



Absolute Maximum Ratings(Ta=25℃)

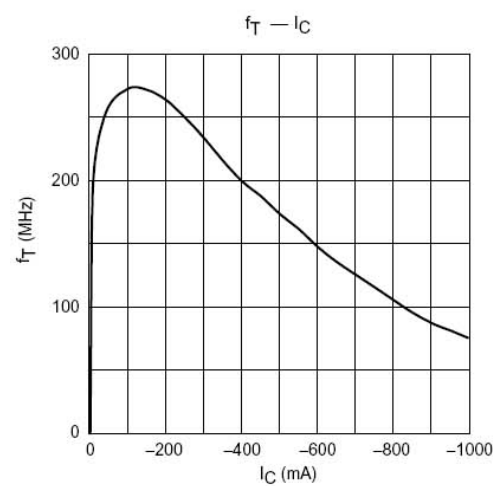
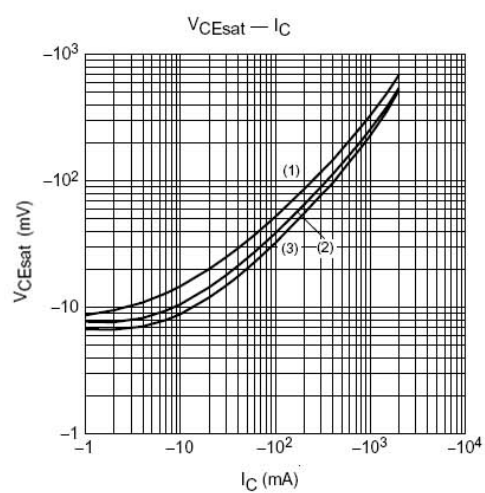
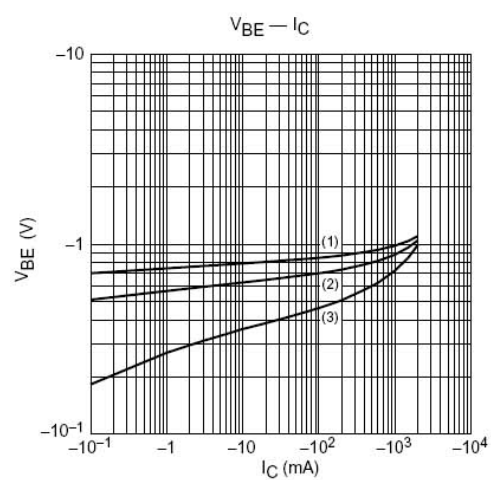
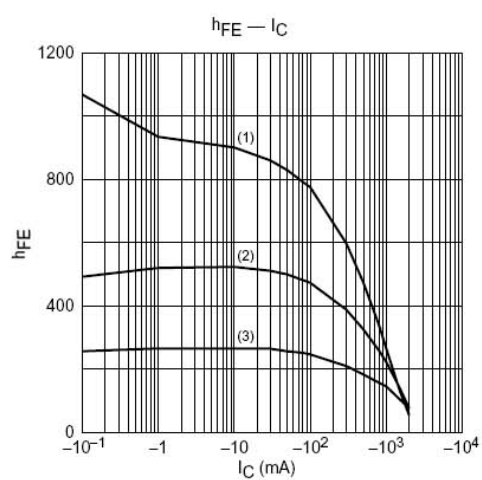
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-1	A
Peak Collector Current	I_{CM}	-2	A
Base Current	I_B	-0.3	A
Peak Base Current	I_{BM}	-1	A
Total Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃

Electrical Characteristics(Ta=25℃)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60V$ $I_E=0A$			-100	nA
		$V_{CB}=-60V$ $I_E=0A$ $T_j=150^{\circ}C$			-50	μA
Collector-Emitter Cut-Off Current	I_{CES}	$V_{CE}=-60V$ $V_{BE}=0V$			-100	nA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5V$ $I_C=0A$			-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-5V$ $I_C=-500mA$	150	250		
	$h_{FE(2)}$	$V_{CE}=-5V$ $I_C=-1mA$	200	350		
	$h_{FE(3)}$	$V_{CE}=-5V$ $I_C=-1A$	100	160		
Collector-Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-100mA$ $I_B=-1mA$		-110	-160	mV
	$V_{CE(sat)(2)}$	$I_C=-500mA$ $I_B=-50mA$		-120	-175	mV
	$V_{CE(sat)(3)}$	$I_C=-1A$ $I_B=-100mA$		-220	-330	mV
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-1A$ $I_B=-50mA$		-0.95	-1.1	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-5V$ $I_C=-1A$		-0.82	-0.9	V
Transition Frequency	f_T	$V_{CE}=-10V$ $I_C=-50mA$ $f=100MHz$	150	220		MHz
Collector Capacitance	C_C	$V_{CB}=-10V$ $I_E=0A$ $f=1MHz$		9	15	pF



Electrical Characteristic Curve

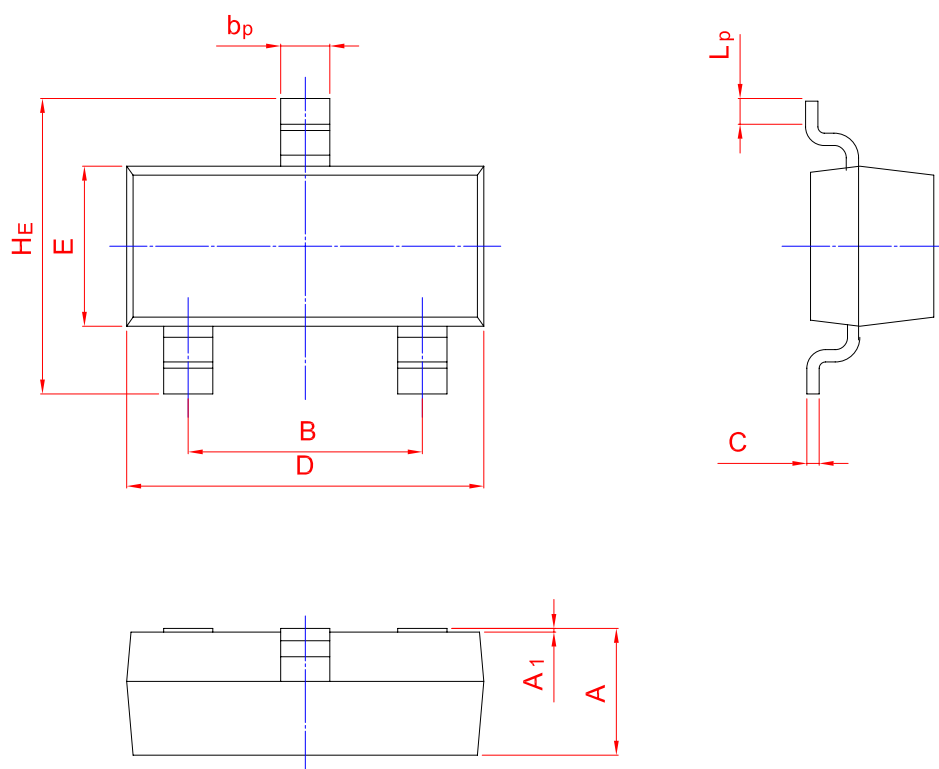
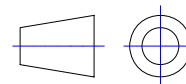




PACKAGE OUTLINE

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