



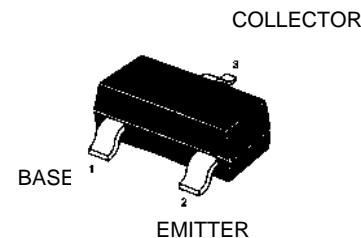
迈拓电子
MAITUO ELECTRONIC

S8050 TRANSISTOR (NPN)

FEATURES

Complimentary to S8550

Collector Current: $I_C=0.5A$



MARKING: J3Y

SOT-23

MAXIMUM RATINGS ($T_A=25^\circ C$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	0.5	A
P_C	Collector Dissipation	0.3	W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

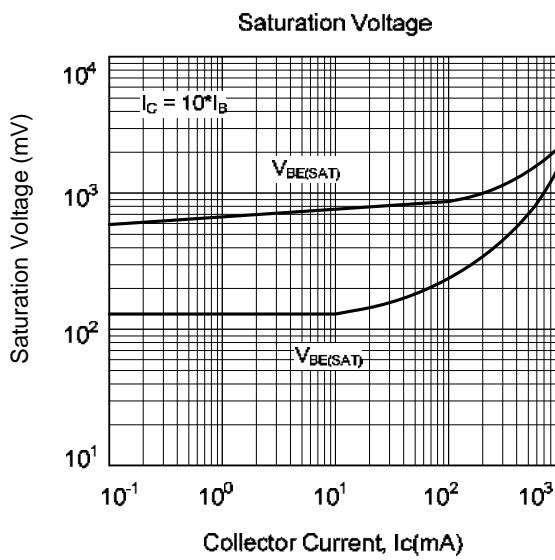
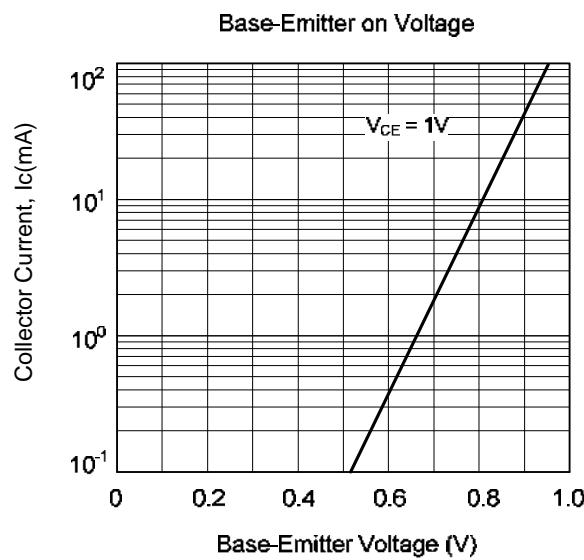
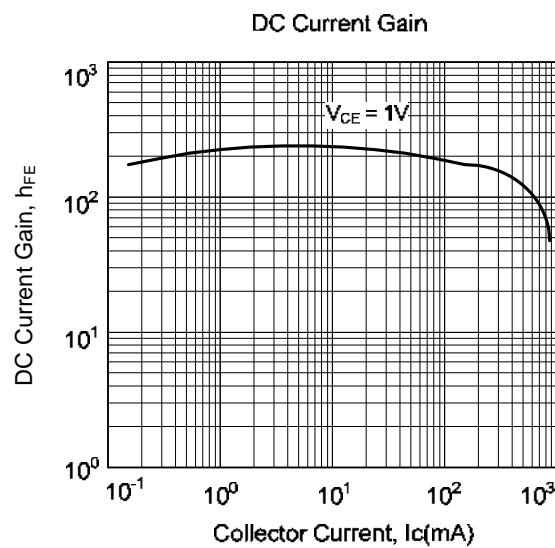
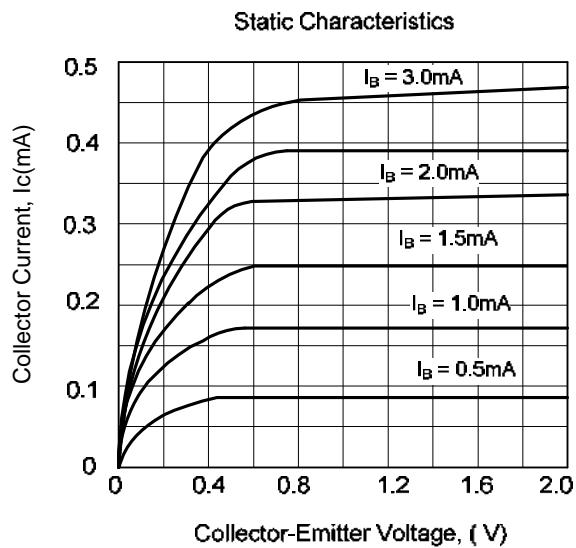
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C= 100\mu A, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=40 V, I_E=0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=20V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	$H_{FE(1)}$	$V_{CE}=1V, I_C= 50mA$	200		350	
	$H_{FE(2)}$	$V_{CE}=1V, I_C= 500mA$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500 mA, I_B= 50mA$			0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=500 mA, I_B= 50mA$			1.2	V
Transition frequency	f_T	$V_{CE}=6V, I_C= 20mA$ $f=30MHz$	150			MHz



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Typical Characteristics



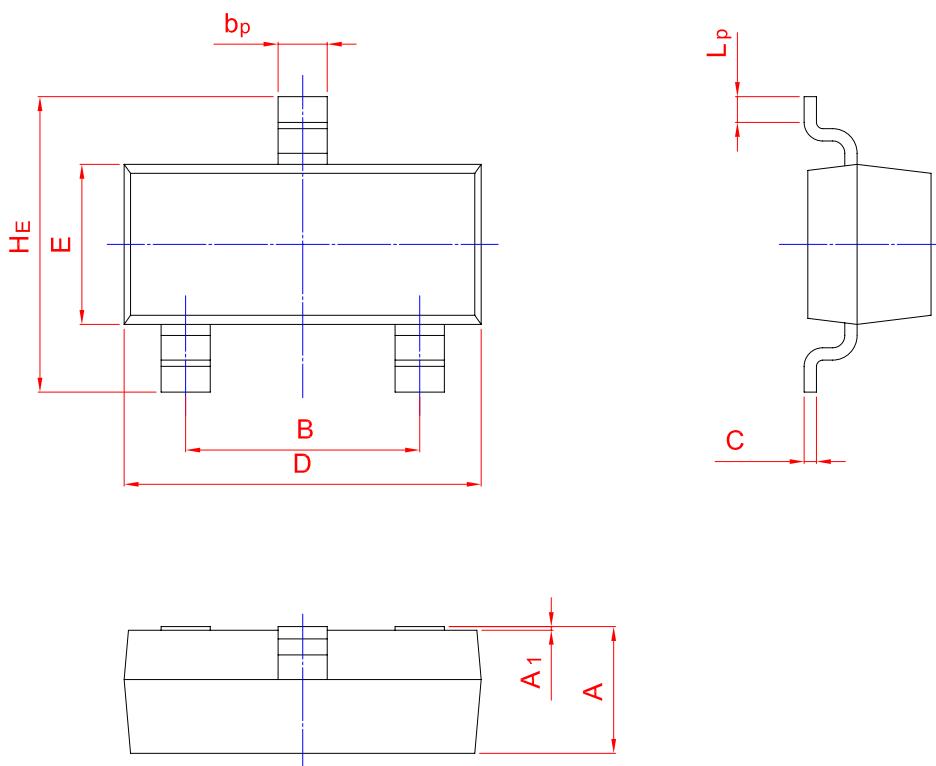


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PACKAGE OUTLINE

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