S9015　　TRANSISTOR(PNP)

FEATURES

Complementary to S9014

1. BASE
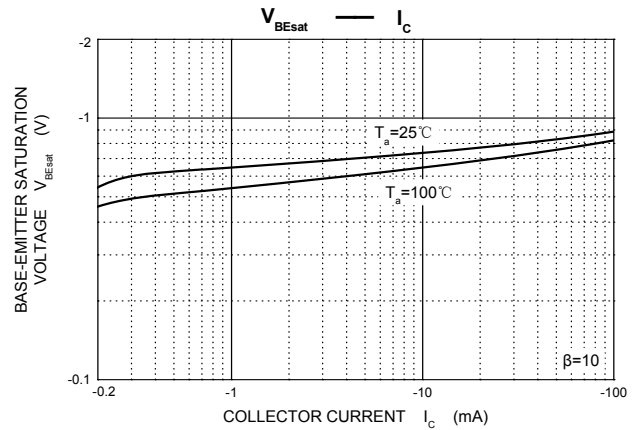2. EMITTER
3. COLLECTOR

MARKING: M6
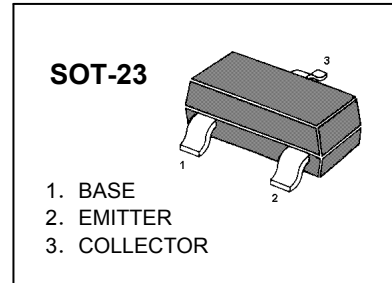
MAXIMUM RATINGS (T$_A$=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V$_{CBO}$	Collector-Base Voltage	-50	V
V$_{CEO}$	Collector-Emitter Voltage	-45	V
V$_{EBO}$	Emitter-Base Voltage	-5	V
I$_C$	Collector Current -Continuous	-0.1	A
P$_C$	Collector Power Dissipation	0.2	W
T$_j$	Junction Temperature	150	℃
T$_{stg}$	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V$_{(BR)CBO}$	I$_C$= -100μA,　I$_E$=0	-50			V
Collector-emitter breakdown voltage	V$_{(BR)CEO}$	I$_C$ = -0.1mA,　I$_B$=0	-45			V
Emitter-base breakdown voltage	V$_{(BR)EBO}$	I$_E$=-100μA,　I$_C$=0	-5			V
Collector cut-off current	I$_{CBO}$	V$_{CB}$=-50V,　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$_{FE}$	V$_{CE}$=-5V,　I$_C$= -1mA	200		450	
Collector-emitter saturation voltage	V$_{CE}$(sat)	I$_C$=-100mA,　I$_B$= -10mA			-0.3	V
Base-emitter saturation voltage	V$_{BE}$(sat)	I$_C$=-100mA,　I$_B$=-10mA			-1	V
Transition frequency	f$_T$	V$_{CE}$=-5V,　I$_C$= -10mA f=30MHz	150			MHz

Typical Characteristics

Static Characteristic

h$_{FE}$ — I$_C$

V$_{CEsat}$ — I$_C$

V$_{BEsat}$ — I$_C$

I$_C$ — V$_{BE}$

f$_T$ — I$_C$

C$_{ob}$/ C$_{ib}$ — V$_{CB}$/ V$_{EB}$

P$_C$ — T$_a$
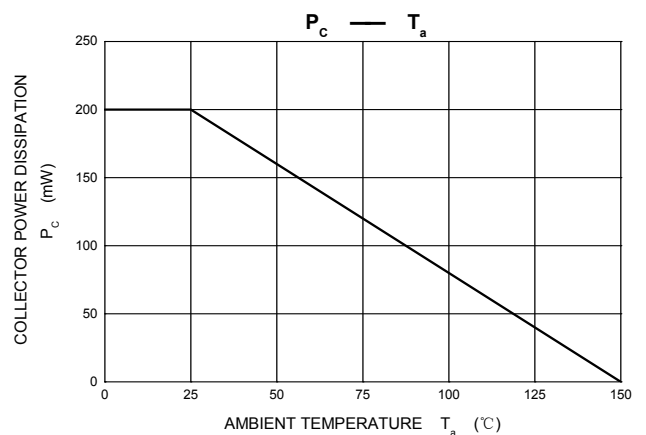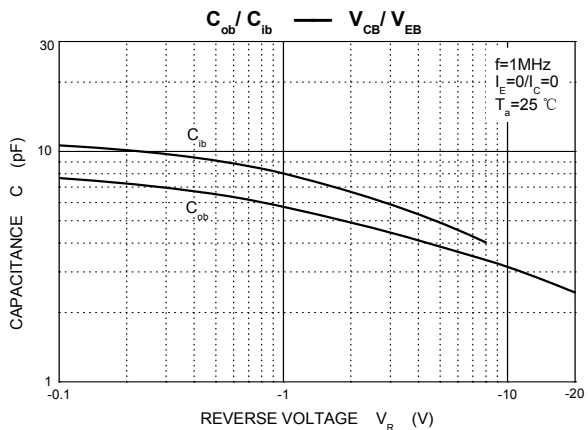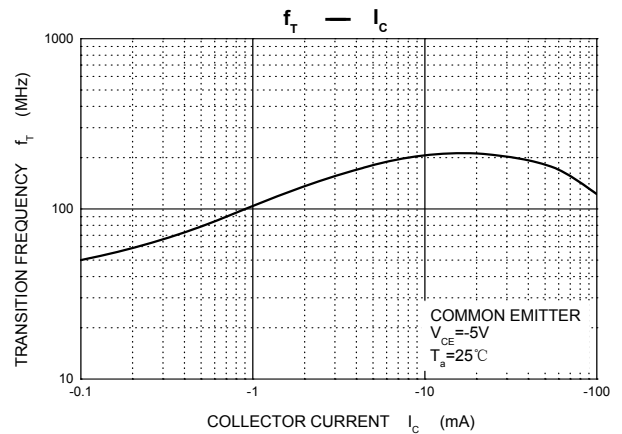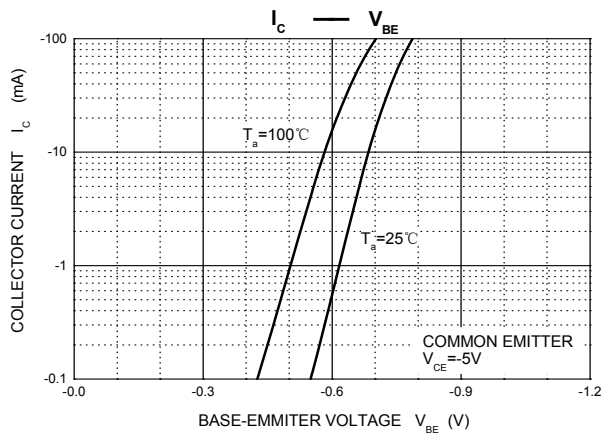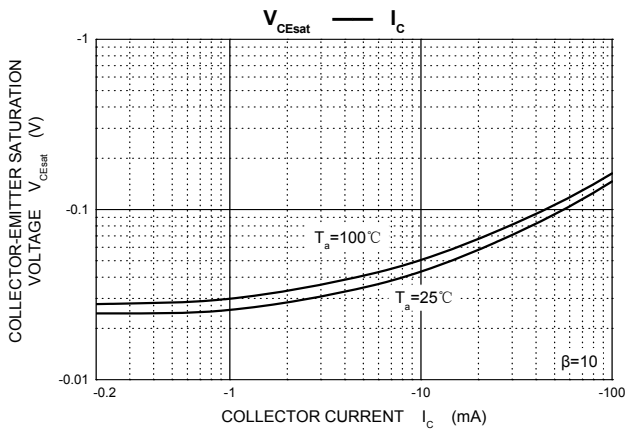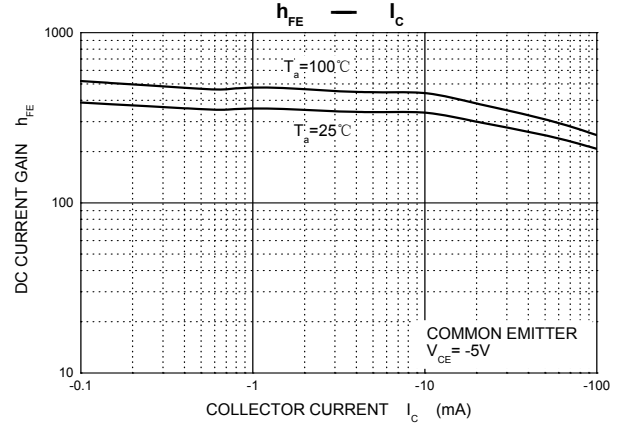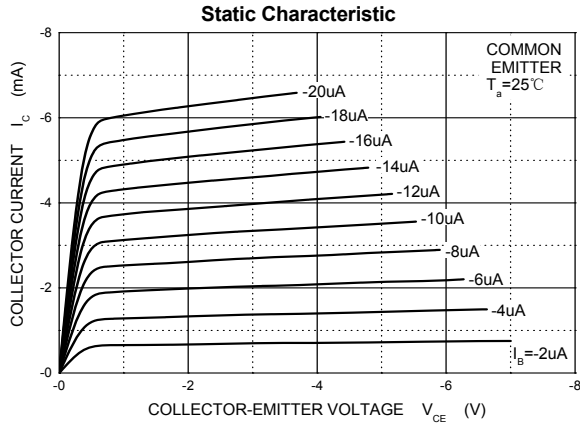
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads   **SOT-23**
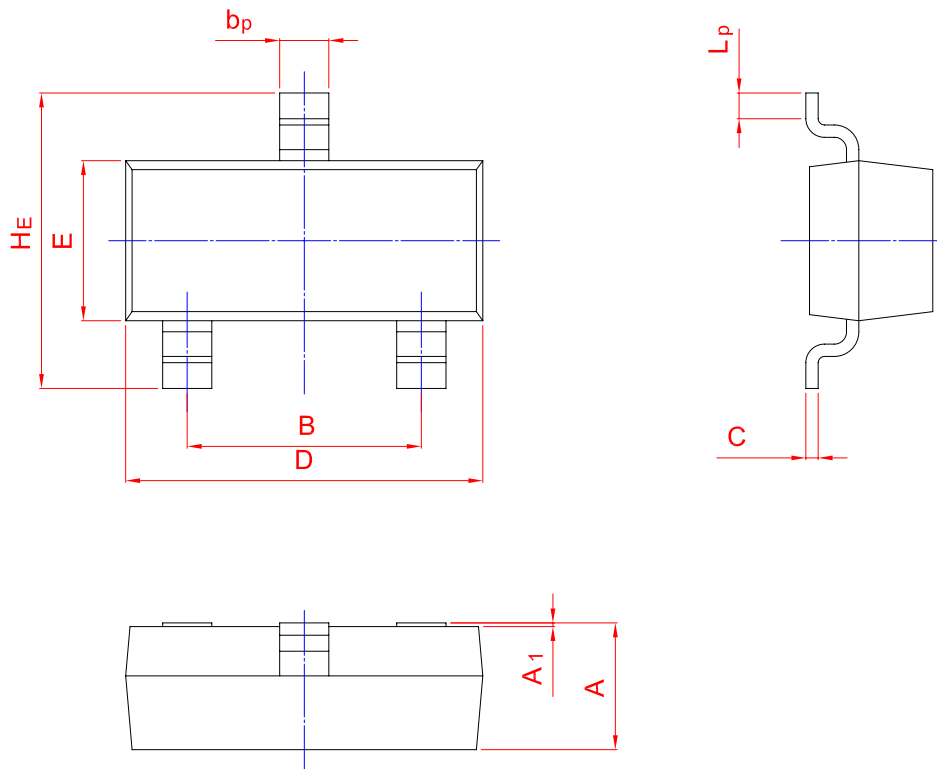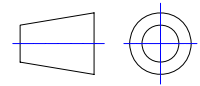
UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

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