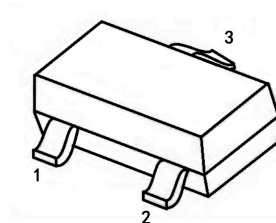


TRANSISTOR (PNP)

FEATURES

- High Collector Current
- Complementary To S9013
- Excellent hFE Linearity

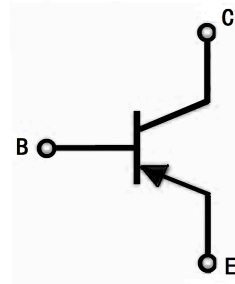
SOT-23



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

MARKING : 2T1

CIRCUIT DIAGRAM



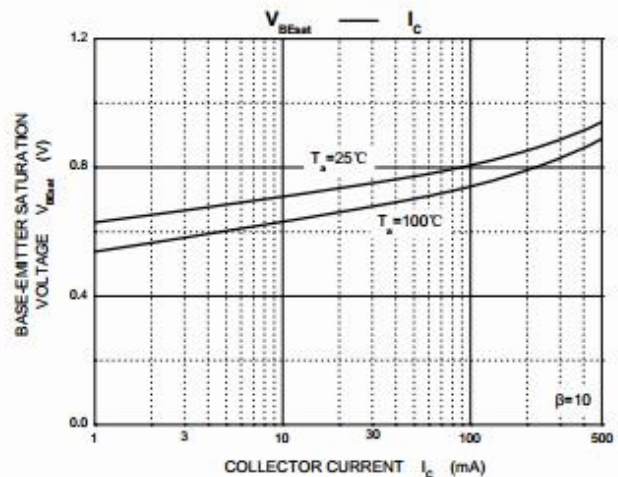
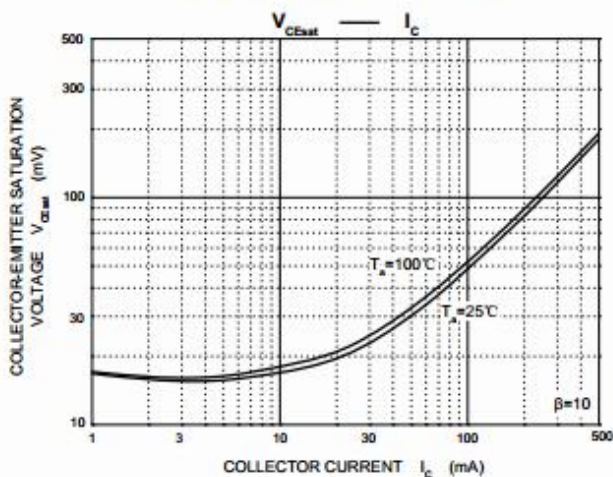
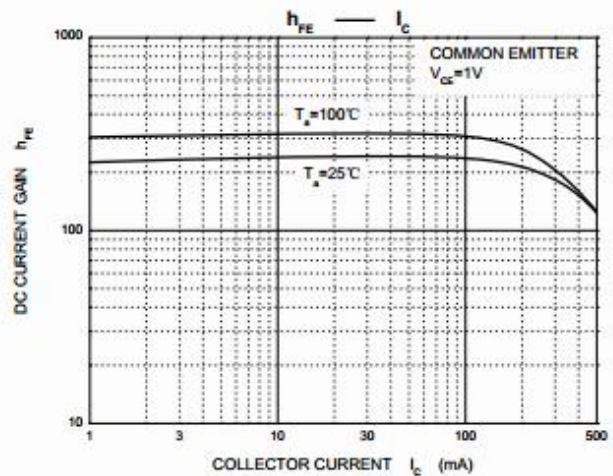
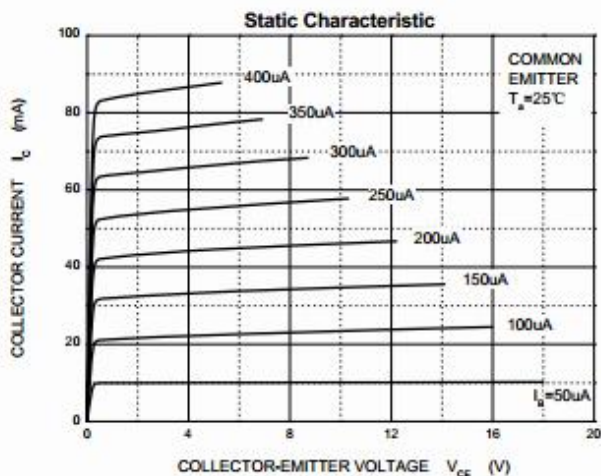
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_{CM}	0.5	A
Power Dissipation	P_D	0.625	W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55~150	°C

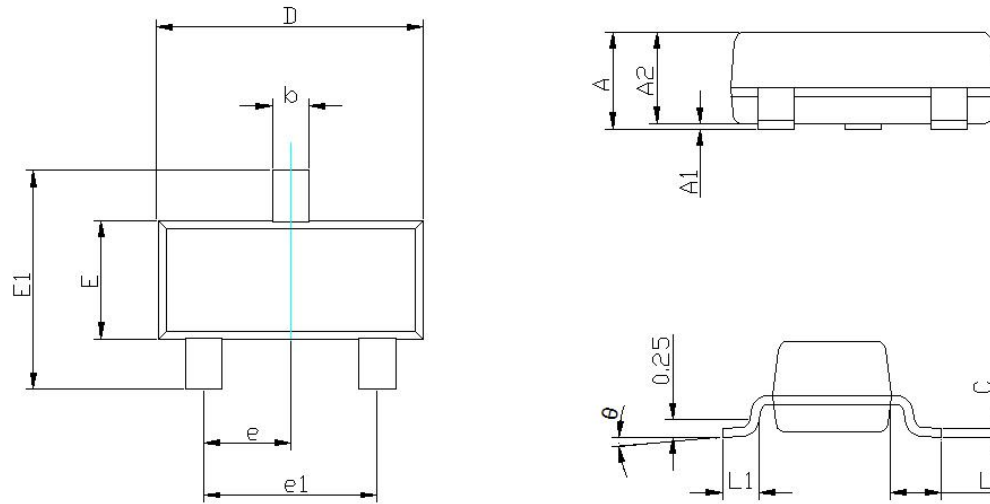
ELECTRICAL CHARACTERISTICS Ta=25 °C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Max	Unit
Emitter-base breakdown voltage	V_{EBO}	$I_E=-100\mu A, I_C=0$	-5		V
Collector-base breakdown voltage	V_{CBO}	$I_C=-100\mu A, I_E=0$	-40		V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=-100\mu A, I_B=0$	-20		V
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_C=0$		-0.1	μA
Collector cut-off current	I_{CBO}	$V_{CB}=-40V, I_E=0$		-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=-20V, I_B=0$		-0.1	μA
Collector-emitter saturation voltage	V_{CESAT}	$I_C=-500mA, I_B=-50mA$		-0.6	V
Base-emitter saturation voltage	V_{BESAT}	$I_C=-500mA, I_B=-50mA$		-1.2	V
DC current gain	h_{fe}	$V_{CE}=-1V, I_C=-50mA$	200	350	
Transition frequency	f_T	$V_{CE}=-6V, I_C=-20mA$ $F=30MHZ$	150		MHZ

TYPICAL CHARACTERISTICS



SOT-23 PACKAGE OUTLINE DRAWING



SYMBOL	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.900	1.15	0.035	0.045
A1	0.000	0.125	0.000	0.005
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF (0.4-0.6)		0.022REF (0.016-0.024)	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°